



US Army Corps  
of Engineers  
Seattle District

# Public Notice of Application for Permit

**Regulatory Branch**  
**Post Office Box 3755**  
**Seattle, Washington 98124-3755**  
**Telephone (206) 764-3495**  
**ATTN: Sandra Manning, Project Manager**

**Public Notice Date:** July 18, 2004  
**Expiration Date:** August 17, 2004  
**Reference:** 200401277  
**Name:** Clark County Public Works  
**NE 179<sup>th</sup> Street Improvements**

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Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

**APPLICANT -** Clark County Public Works  
Post Office Box 9810  
Vancouver, Washington 98666-9810  
ATTN: Phil Gaddis  
Telephone: (360) 397-6118 Ext. 4865

**LOCATION** – In wetlands and Whipple Creek on Northeast 179<sup>th</sup> Street between Interstate-5 and Northeast 50<sup>th</sup> Avenue near Vancouver, Clark County, Washington.

**WORK** – The proposed project will widen Northeast 179<sup>th</sup> from two lanes to four lanes in the western portion from Northeast 10<sup>th</sup> Avenue to Northeast 29<sup>th</sup> Avenue, and will upgrade the existing two lanes in the eastern portion of the project (Northeast 29<sup>th</sup> Avenue to Northeast 50<sup>th</sup> Avenue) to current standards from a rural roadway to a Principal Arterial. The entire project will include sidewalks, bicycle lanes, turn lanes and stormwater treatment ponds. The project will impact 10 wetlands, resulting in the loss of 2.91 acres of wetlands which includes 0.14 acres of stream impacts and fill within jurisdictional ditches, and impacts to 7.62 acres of wetland buffers. 2.61 acres of the impacts are to category III emergent wetlands, 0.06 are to category IV emergent wetlands, and 0.24 are to category II scrub shrub/forested wetlands. Construction of stormwater facilities accounts for approximately 2.1 acres of the wetland impacts because no upland locations were available that would accomplish the required stormwater management goals without significant pumping of the stormwater. The wetlands impacted by the stormwater facilities are emergent wetlands, rated low for hydrologic retention and water quality treatment. The stormwater facilities are designed to treat the water running into these wetlands, and will be planted with native vegetation to provide enhanced habitat functions.

In addition to wetland impacts, the project includes improvements to 5 stream crossings. The existing stream crossings consist of culverts that partially or completely block fish access. All of the culverts will be replaced with fish-passable structures, and the Whipple Creek culvert will be replaced with a bridge due to the Creek's size. In water work required to upgrade the stream crossings will result in fill to the banks of the stream for a total of 0.14 acres for all crossings. These totals are calculated within the wetland fill totals because the work is within the bank area that is emergent wetland rather than within the stream bed.

PURPOSE – Upgrade Northeast 179<sup>th</sup> Street to address safety and accessibility issues and improve traffic efficiency to accommodate ongoing and planned development in the area.

ADDITIONAL INFORMATION – The project is being designed per the Department of Ecology Stormwater Management Manual for Western Washington. Functions provided by the impacted wetlands and streams include hydrologic and water quality functions of degraded emergent pasture wetlands, and habitat functions of degraded streams and their riparian areas.

MITIGATION – Creation of 0.70 acres of wetlands, restoration of 1.79 acres, rehabilitation of 7.41 acres, and enhancement of 0.40 acres of wetlands, and enhancement to 6.77 acres of wetland buffers. Goals of the mitigation wetlands include: increased flood storage capacity, increased infiltration, improved water quality, extended hydroperiod and reduction of downstream erosion by creating wetlands and including a meandering channel with deep pools. Habitat functions will be improved through the addition of woody material, native vegetation plantings, realigned stream channel, and conservation of a wet prairie community. Enhancement will include removal of invasive vegetation, and replanting with native vegetation, and improved water quality through stormwater treatment. The U.S. Army Corps of Engineers (Corps) is currently reviewing the draft mitigation plan as proposed for this project. No decisions have been made as to the adequacy of the proposed mitigation.

ENDANGERED SPECIES -

The Endangered Species Act (ESA) of 1973, as amended, requires assessment of potential impacts to listed and proposed species. The Bald eagle (*Haliaeetus leucocephalus*) threatened, Columbia River bull trout (*Salvelinus confluentus*) threatened, Northern Spotted Owl (*Strix occidentalis caurina*) threatened, Gray Wolf (*Canis lupus*) endangered, Golden Paintbrush (*Castilleja levisecta*) threatened, Water Howelia (*Howellia aquatica*) threatened, Bradshaw's lomatium (*Lomatium bradshawii*) endangered, Lower Columbia River steelhead (*Oncorhynchus mykiss*) threatened, Columbia River chum (*Oncorhynchus keta*) threatened, and the Lower Columbia River Chinook (*Oncorhynchus tshawytscha*) threatened in the state of Washington, may occur in the proposed project area. For steelhead, bull trout, Chinook salmon, chum salmon, and spotted owl, critical habitat has been designated.

After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to these listed species and critical habitat.

ESSENTIAL FISH HABITAT - The Magnuson-Stevens Fishery Conservation and Management Act (MSA), as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). EFH for Pacific salmon occurs in the project area. The proposed action would impact approximately 2.50 acres of EFH for these species.

If the Corps determines that the proposed action may adversely affect EFH for federally-managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The District Engineer has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. No known historic properties occur in the vicinity of the proposed project. However, the property is relatively undisturbed. Because of its location in the landscape (i.e. adjacent to a river), there is a likelihood that unknown historic properties occur in the project area. An historic properties investigation may be required during the permit review. The District Engineer invites responses to this public notice from Native American Nations or tribal governments; Federal, State, and local agencies; historical and archeological societies; and

other parties likely to have knowledge of or concerns with historic properties in the area. This public notice initiates consultation under Section 106 of the National Historic Preservation Act (36 CFR 800.4(a)(3)), with any Tribe that has information or concerns with historic properties in the proposed permit area.

**PUBLIC HEARING** - Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

**EVALUATION** - The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

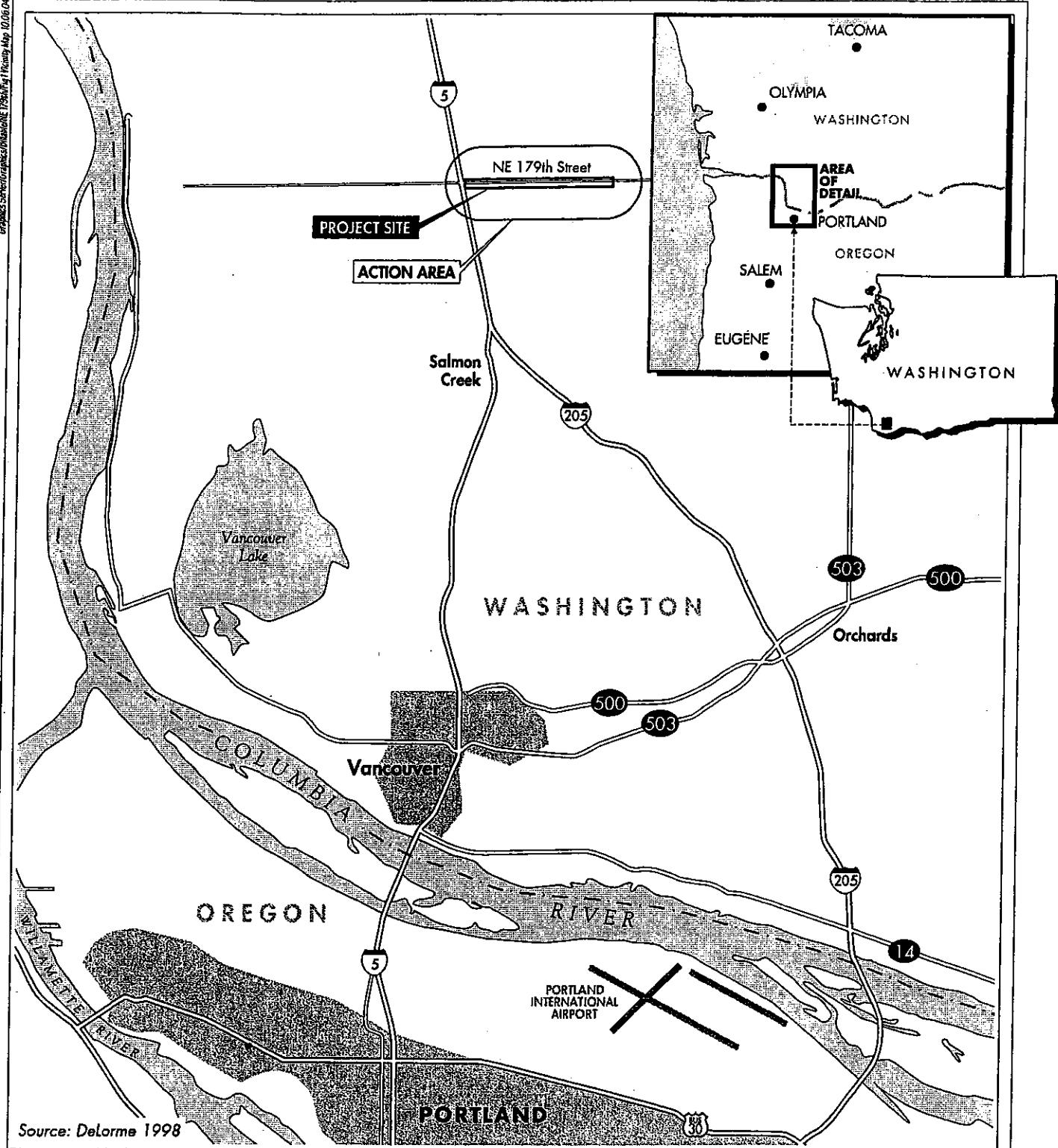
**ADDITIONAL EVALUATION** - The State of Washington is reviewing this work for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

This proposal will be the subject of a Shorelines Permit. The applicant will apply for this permit to Clark County for review.

**COMMENT AND REVIEW PERIOD** - Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to [Sandra.L.Manning@usace.army.mil](mailto:Sandra.L.Manning@usace.army.mil). Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Attn: Sandra Manning, Post Office Box 3755, Seattle, Washington, 98124-3755. Both conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

Clark County Public Works, 200401277

Encl  
Drawings (34)



0 2  
Approximate Scale in Miles

NE 179th STREET

2995014.6

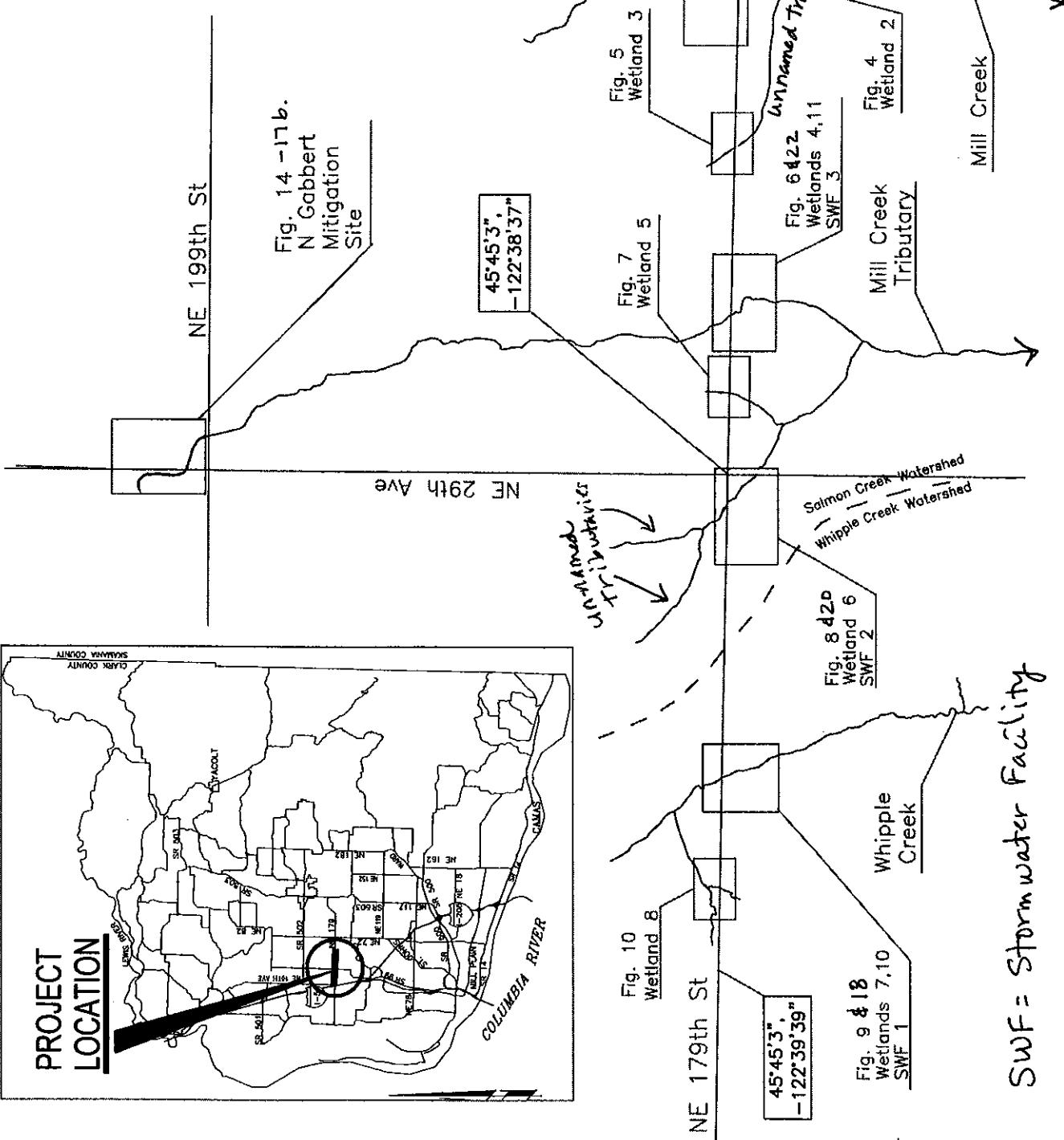
FIGURE 1

**PROJECT VICINITY MAP**

Clark County Public Works, NE 179<sup>th</sup> Street  
Corps Reference 200401277  
Date: June 9, 2005  
Sheet 1 of 34



SCALE IN FEET  
0 750 1500



SWF = Stormwater Facility

Clark County Public Works, NE 179<sup>th</sup> Street  
Corps Reference 200401277  
Date: June 9, 2005  
Sheet 2 of 34

Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)



10/2005 109-9 ground point sampling interval

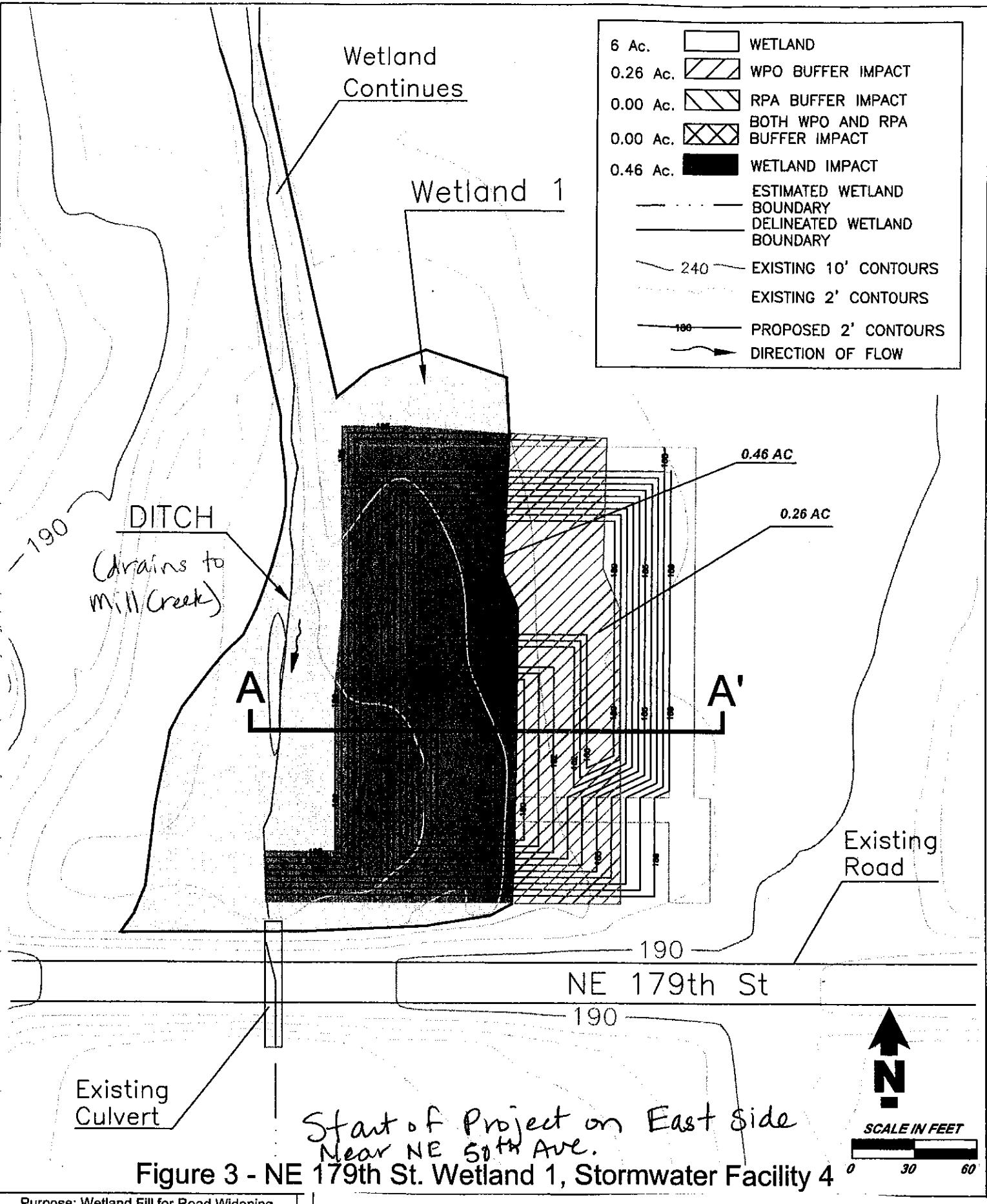


Figure 3 - NE 179th St. Wetland 1, Stormwater Facility 4

Purpose: Wetland Fill for Road Widening

Datum: Horizontal = NAD 83 (91)

Vertical = NGVD 29 (47)



providing past, promising future

Clark County Public Works, NE 179<sup>th</sup> Street

Corps Reference 200401277

Date: June 9, 2005

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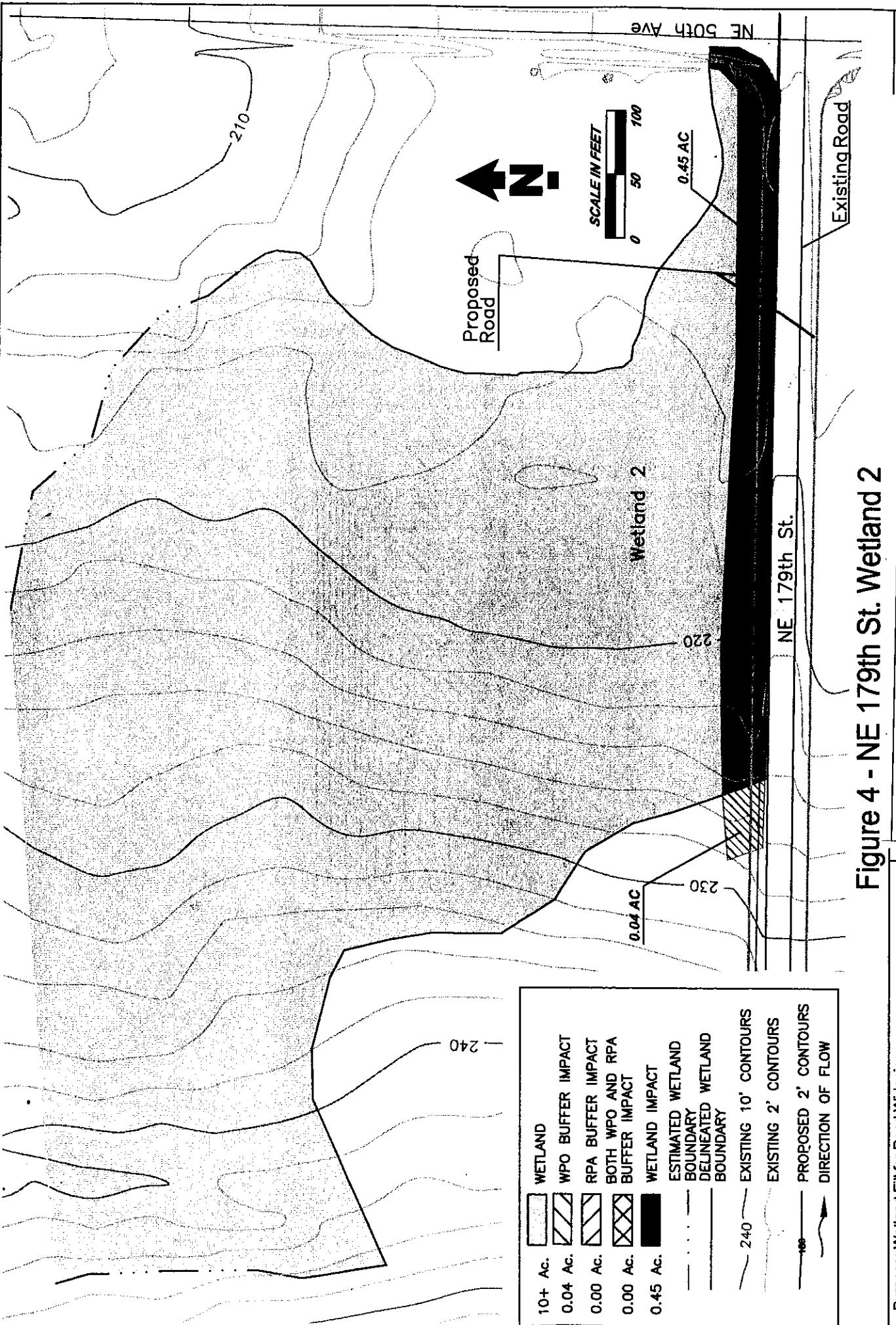
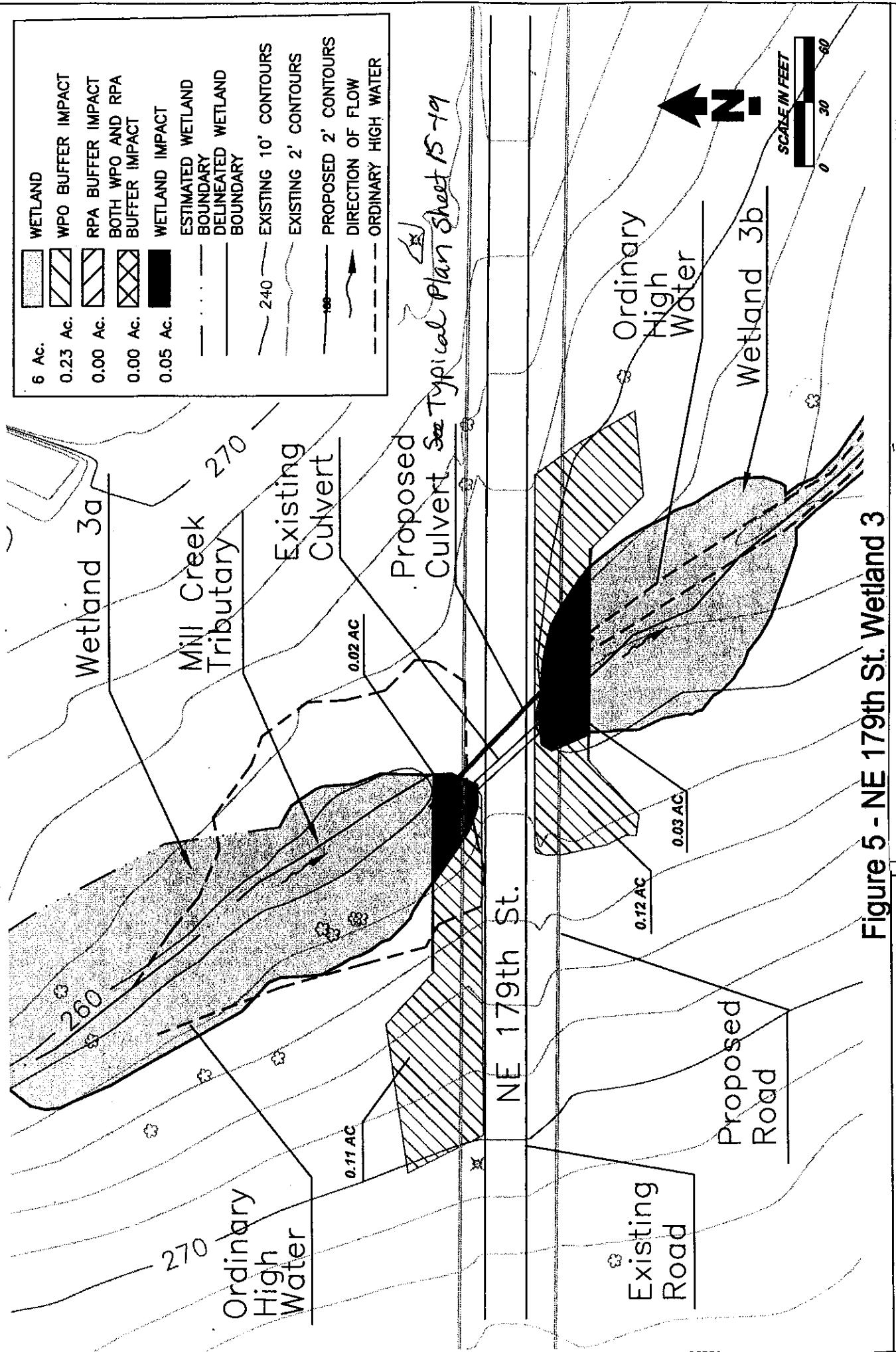


Figure 4 - NE 179th St. Wetland 2

Clark County Public Works, NE 179<sup>th</sup> Street  
Corps Reference 200401277  
Date: June 9, 2005  
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Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)





**Figure 5 - NE 179th St. Wetland 3**

Clark County Public Works, NE 179<sup>th</sup> Street  
 Corps Reference 200401277  
 Date: June 9, 2005  
 Sheet 5 of 34

Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)



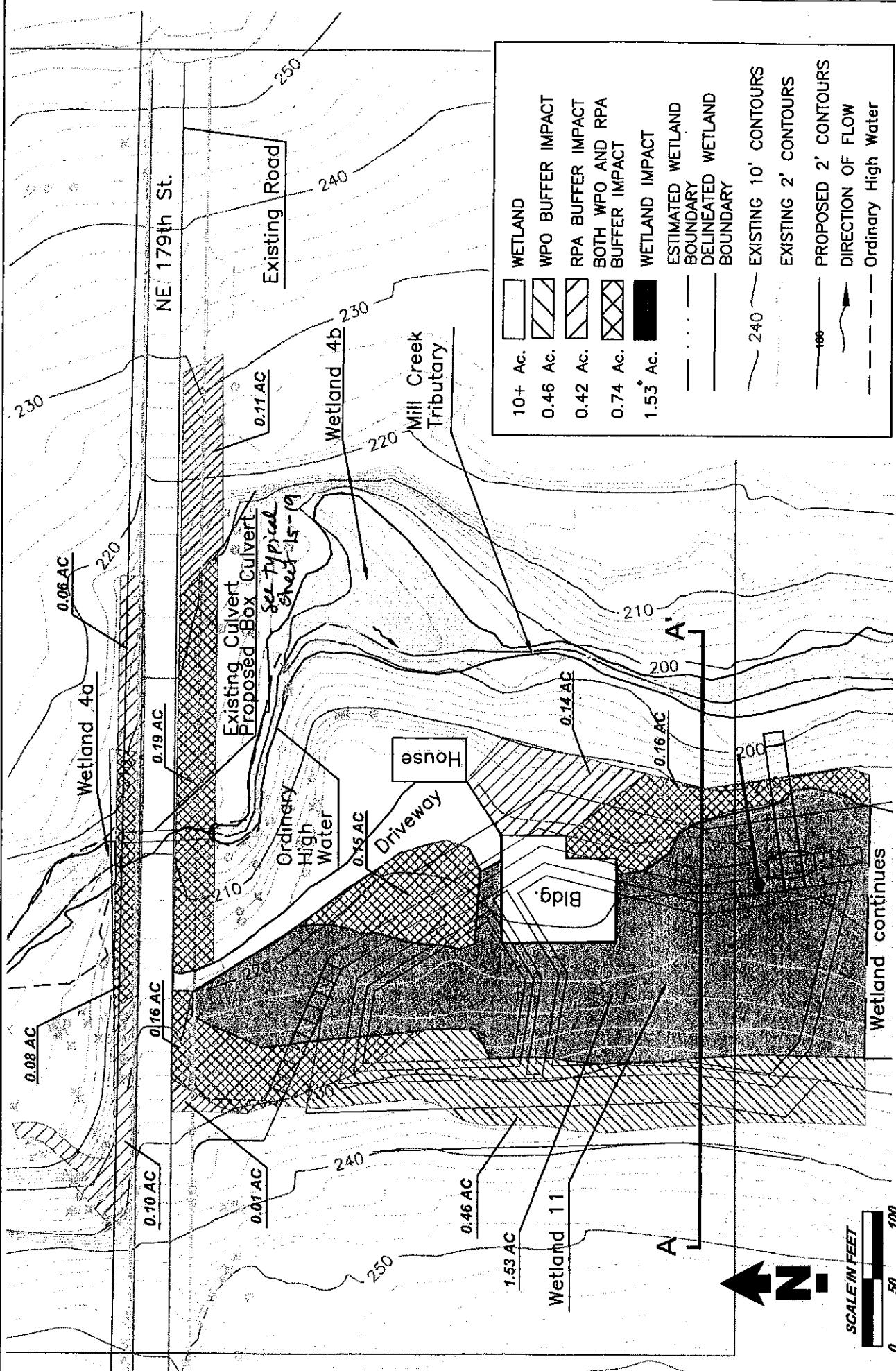


Figure 6 - NE 179th St. Wetlands 4& 11, Stormwater Facility 3

Purpose: Wetland Fill for Road Widening

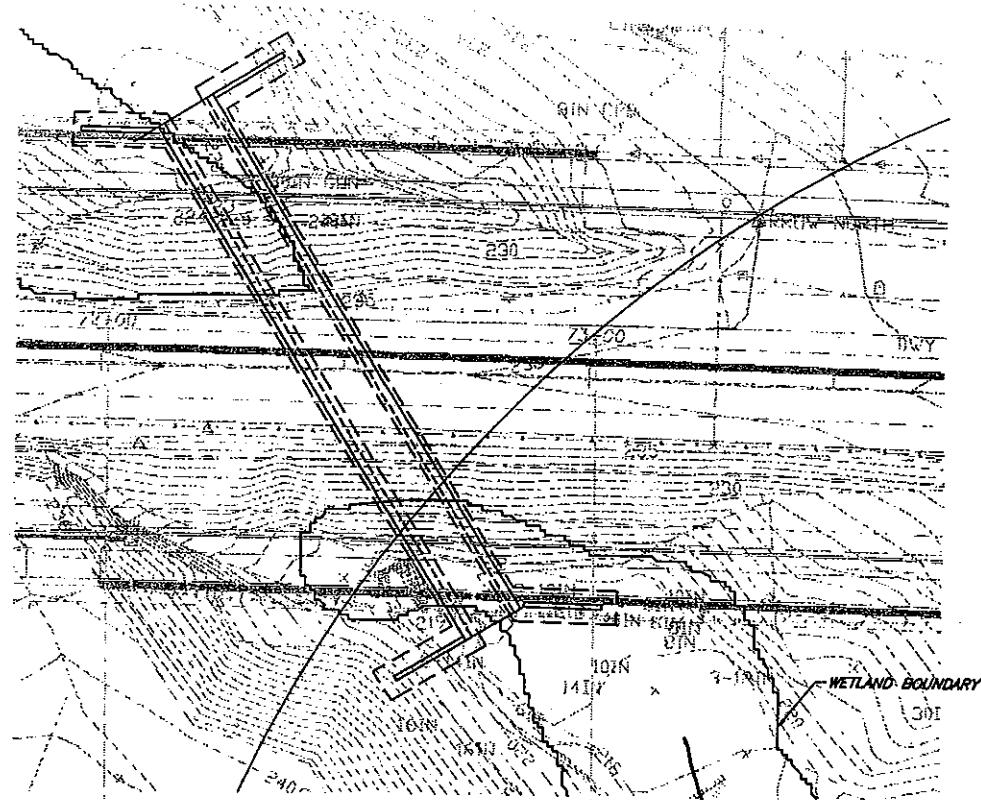
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)



Clark County Public Works, NE 179<sup>th</sup> Street  
Corps Reference 200401277  
Date: June 9, 2005  
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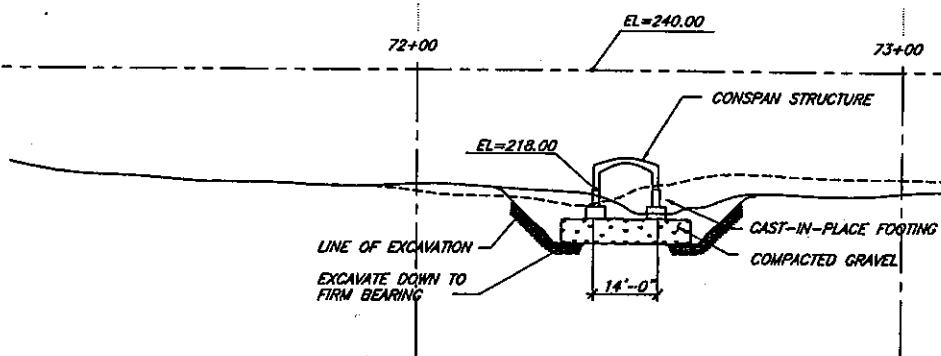
DESIGN & ENGINEERING DIVISION  
DESIGN SECTION

NE 179th STREET (1-5 TO NE 50th AVE)  
CREEK CROSSING (STA 72+50)



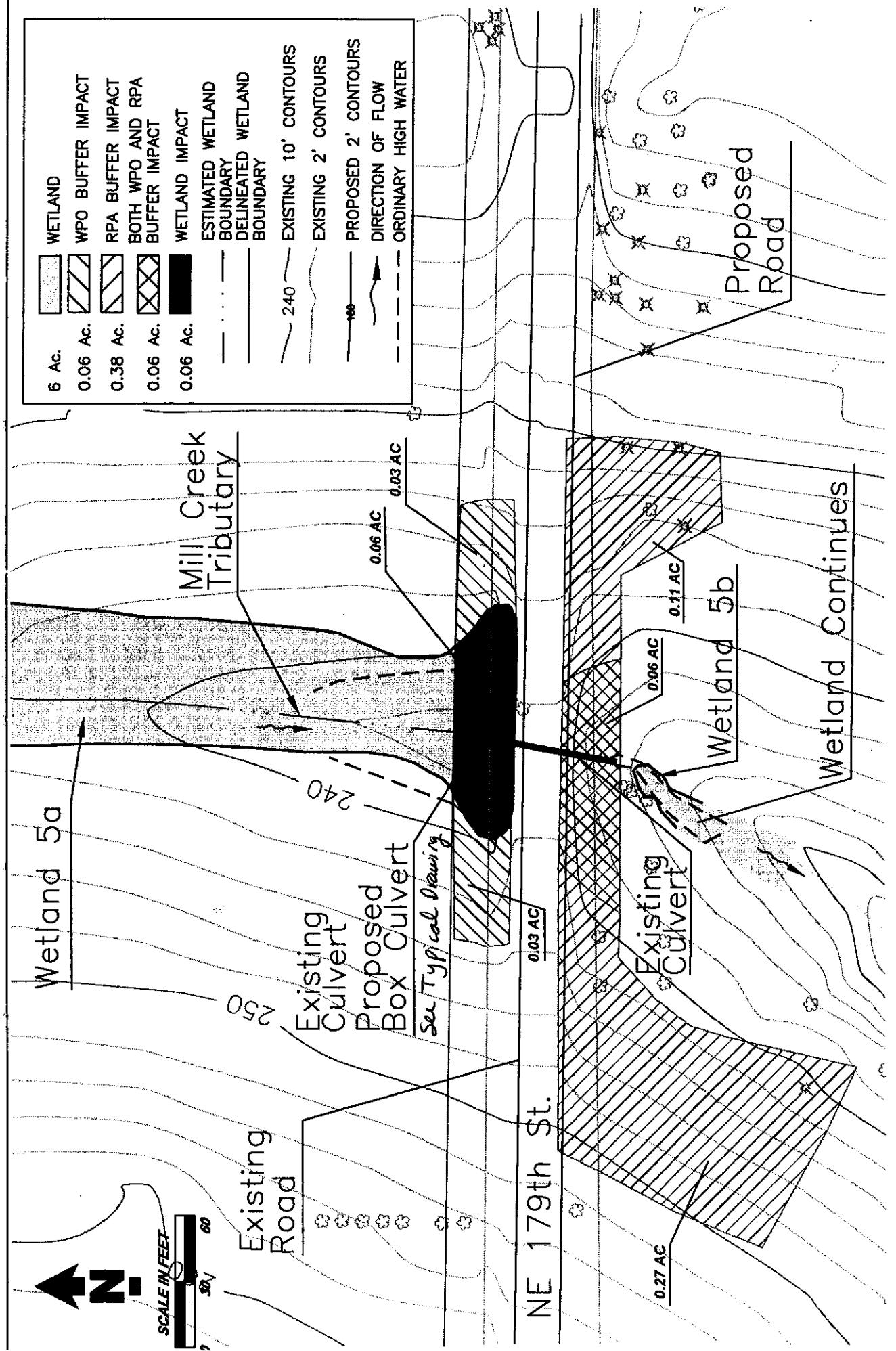
SCALE 1"=20'-0"

-Wetland 4b



SCALE 1"=20'-0"

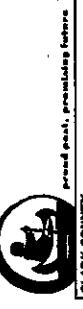
Clark County Public Works, NE 179<sup>th</sup> Street  
Corps Reference 200401277  
Date: June 9, 2005  
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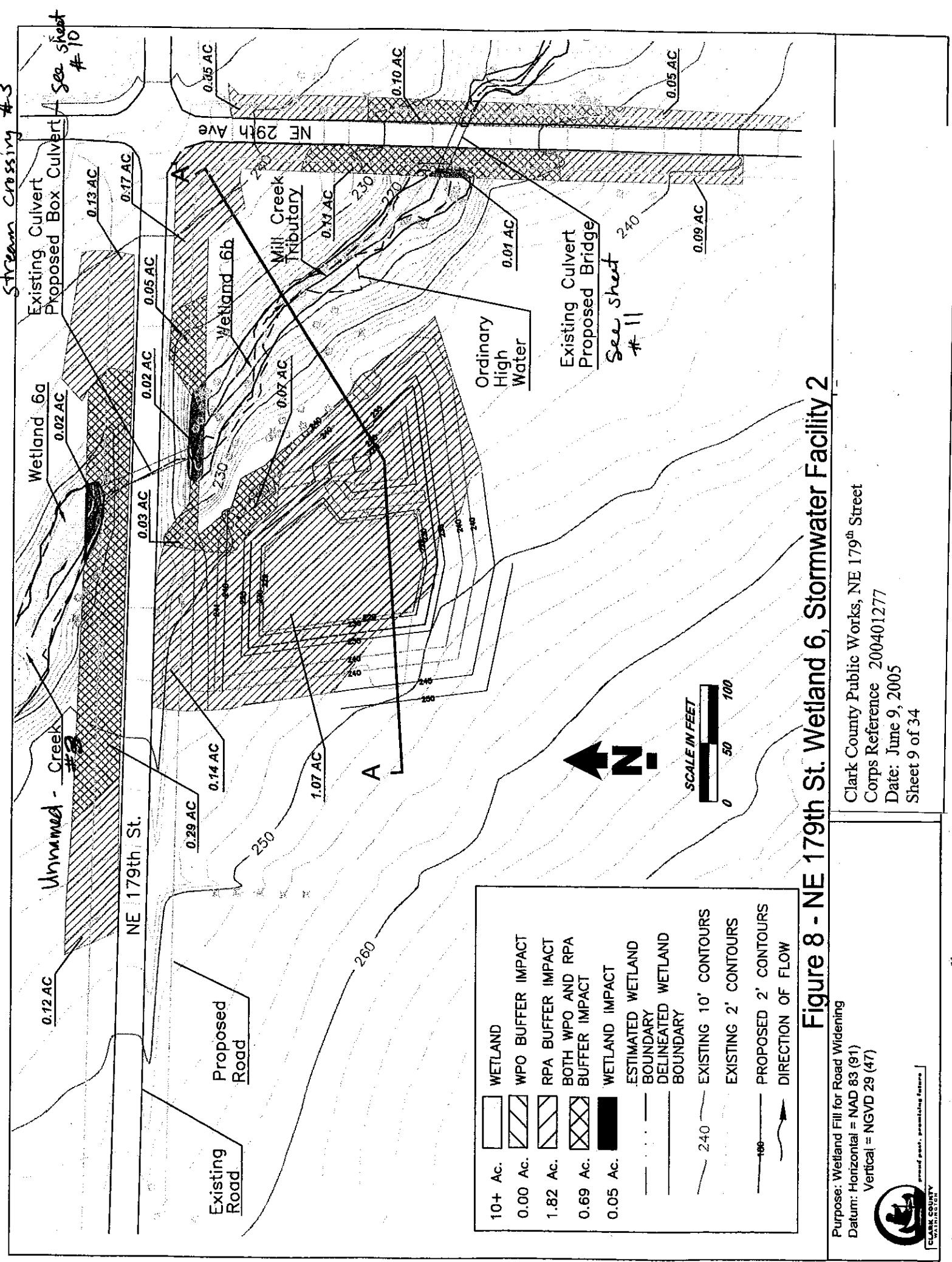


**Figure 7 - NE 179th St. Wetland 5**

Clark County Public Works, NE 179<sup>th</sup> Street  
 Corps Reference 200401277  
 Date: June 9, 2005  
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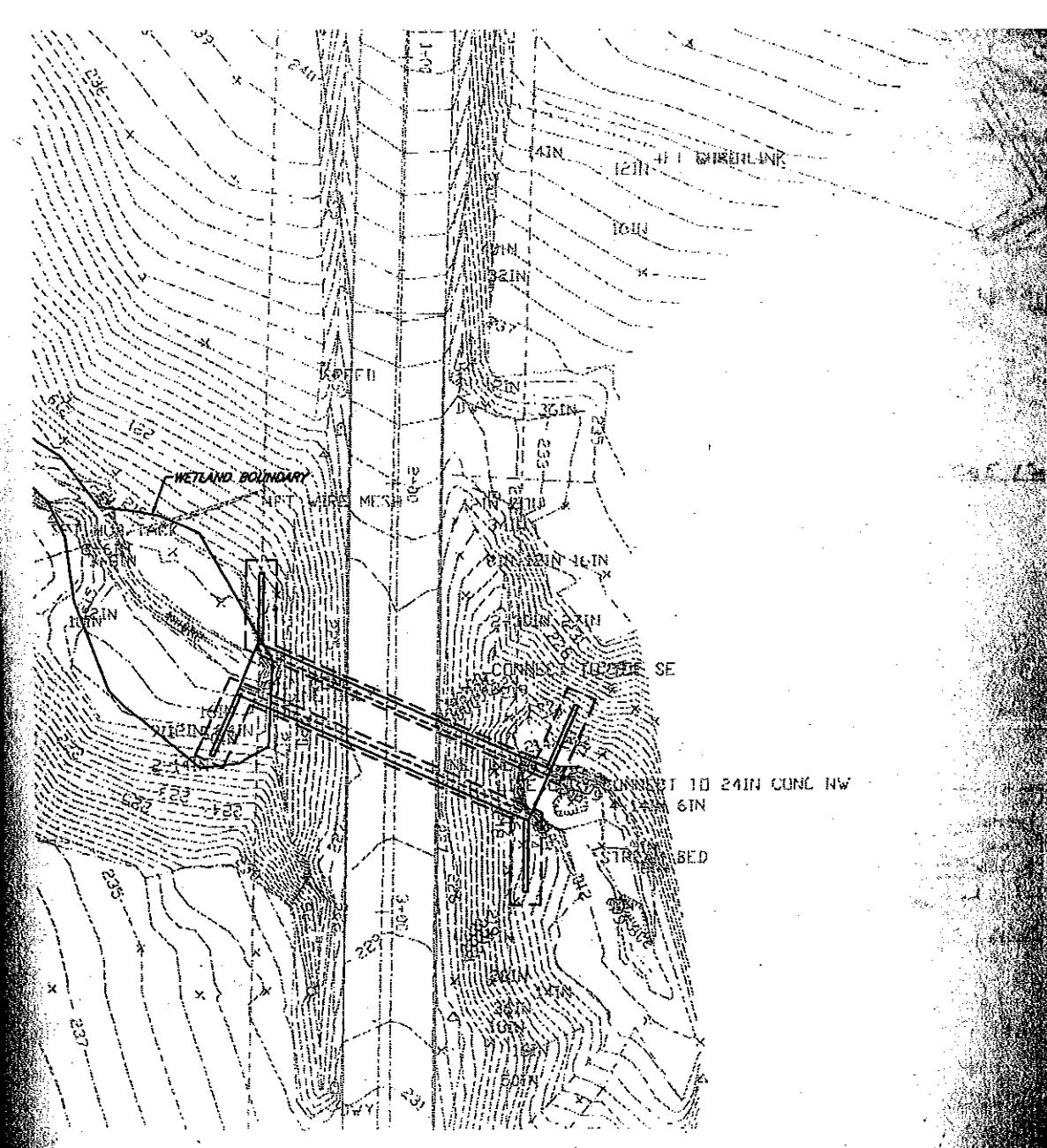
Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)

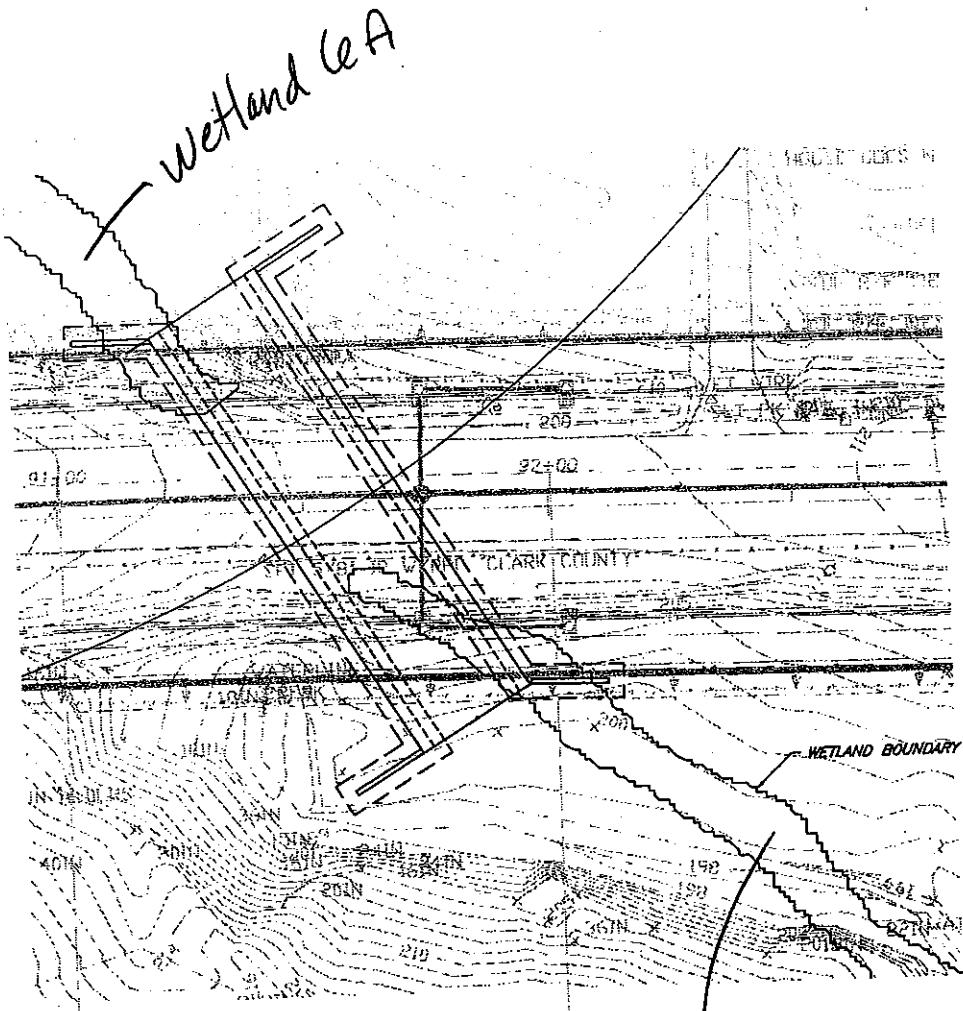




Clark County Public Works, NE 179<sup>th</sup> Street  
 Corps Reference 2004041277  
 Date: June 9, 2005  
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*Stream crossing #4 on 29th Ave.*

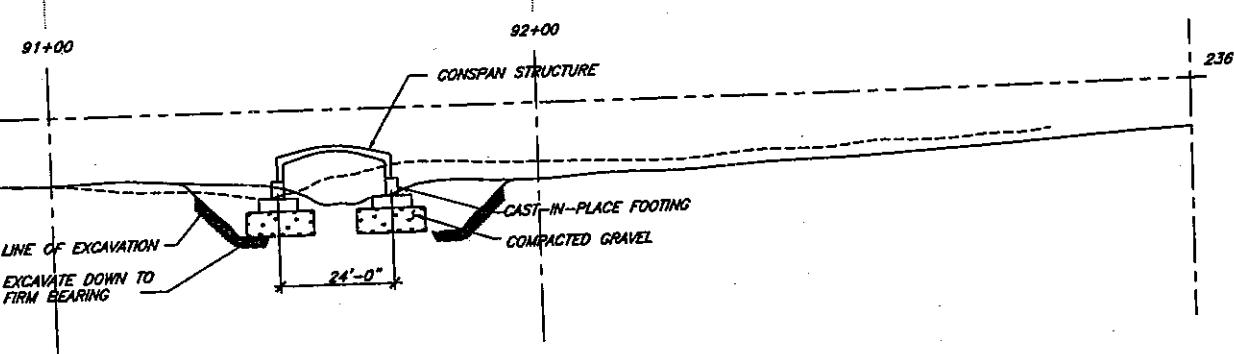


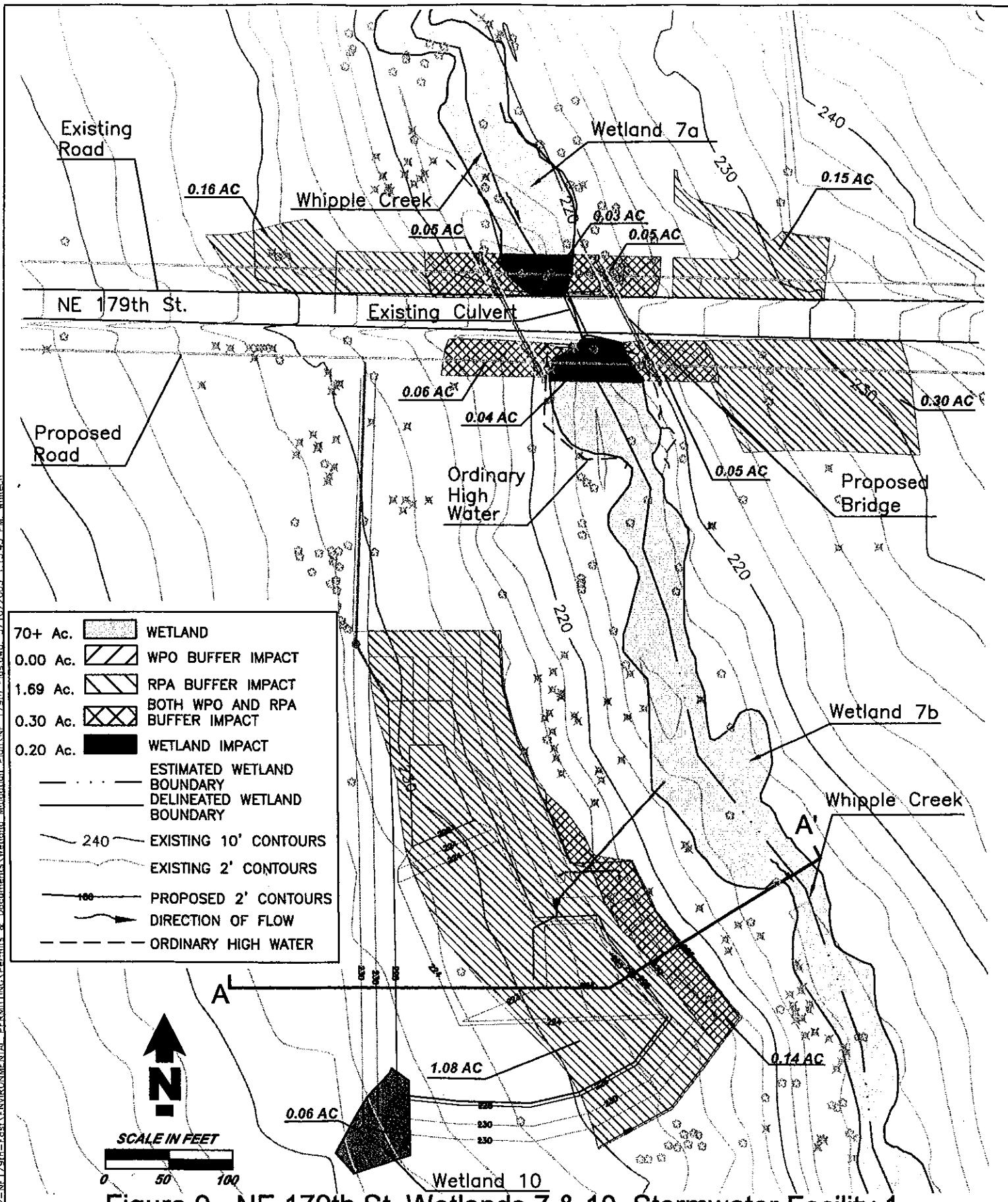


**DESIGN & ENGINEERING DIVISION  
DESIGN SECTION**

NE 179th STREET (1-5 TO NE 50th AVE)  
TRIBUTARY MILL CREEK CROSSING (STA 91+30)

Stream Crossing #3





Purpose: Wetland Fill for Road Widening

Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)



providing past, promising future

Clark County Public Works, NE 179<sup>th</sup> Street

Corps Reference 200401277

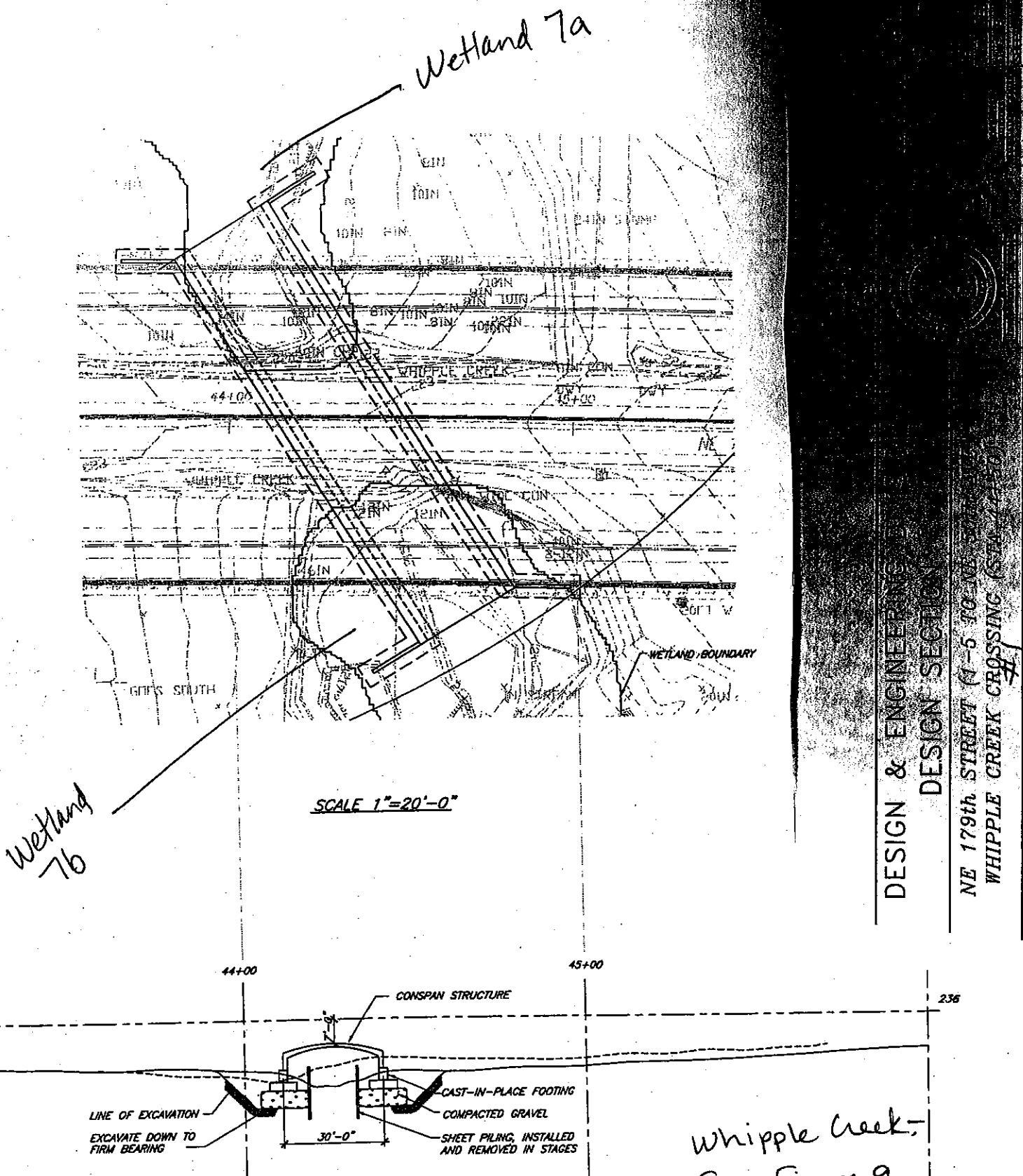
Date: June 9, 2005

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**DESIGN & ENGINEER  
DESIGN SECTION**

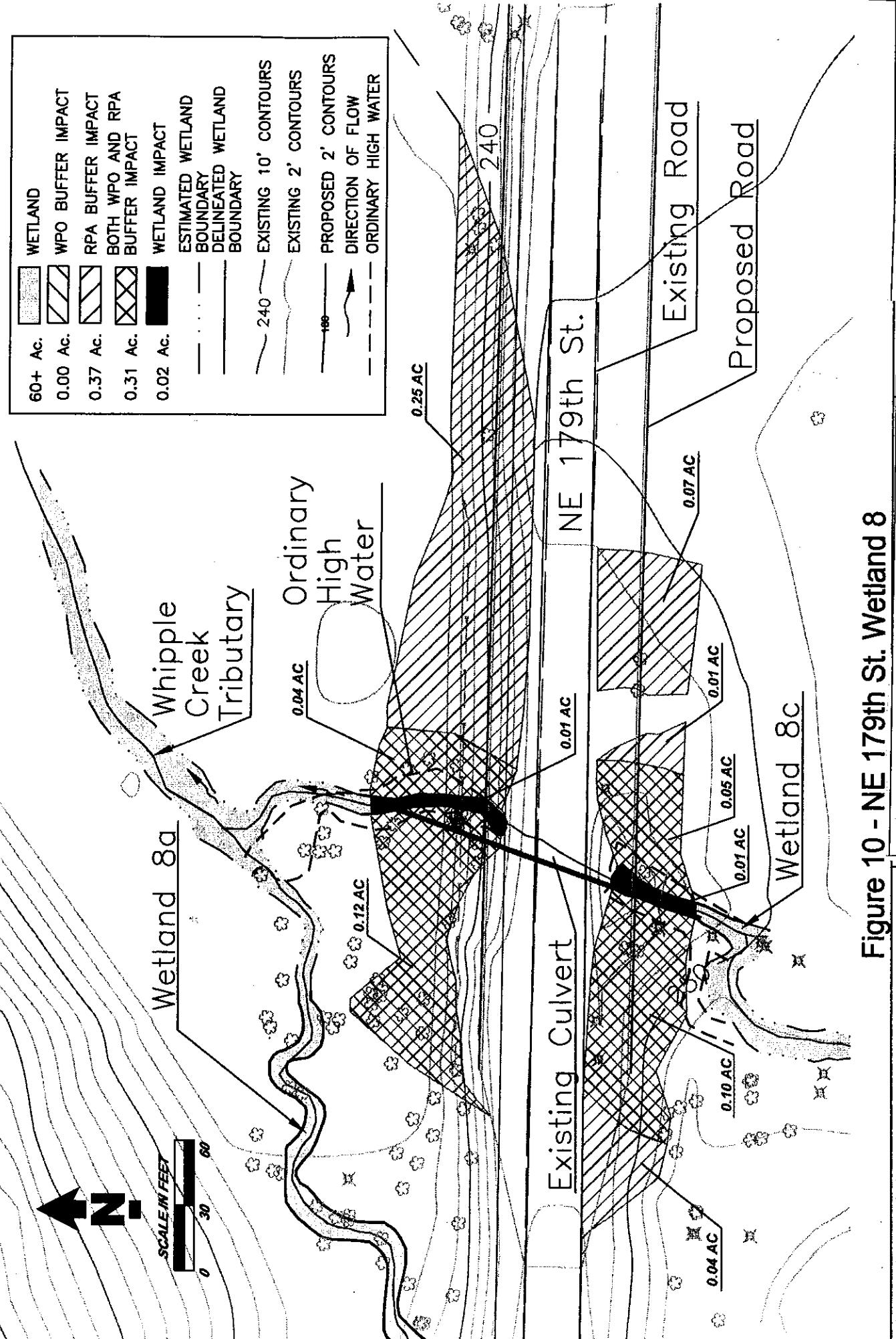
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**NE 179th STREET N-5 TC  
WHIPPLE CREEK CROSSING**



Clark County Public Works, NE 179<sup>th</sup> Street  
 Corps Reference 200401277  
 Date: June 9, 2005  
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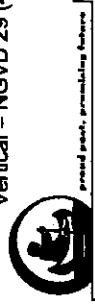
Whipple Creek -  
 See Figure 9  
 for reference



**Figure 10 - NE 179th St. Wetland 8**

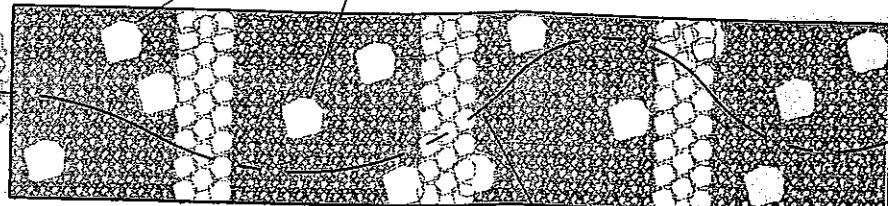
Clark County Public Works, NE 179<sup>th</sup> Street  
 Corps Reference 200401277  
 Date: June 9, 2005  
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Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)



SEE CULVERT INLET AND OUTLET PROTECTION DETAIL, DWG. DSC2

FISH ROCKS. PLACE AS DIRECTED BY THE ENGINEER



PLAN

STREAMBED ROCK

PLACE 3 ROCK BANDS (1.5 - 2 DIA. ROCK) AT LOCATIONS SHOWN.

FISH ROCKS

SEE CULVERT INLET AND OUTLET PROTECTION DETAIL, DWG. DSC2

HEAVY, LOOSE RIPRAP  
(MIN. 4' DEPTH)

FLOW

STREAMBED GRAVEL

25'

MID POINT OF CULVERT

PROFILE

TYPICAL CULVERT LAYOUT

N.T.S.

SEIVE SIZE	PERCENT FINER
No. 10	50 Max.
No. 40	30 Max.
No. 100	—
No. 200	15 Max.
LIQUID LIMIT	—
PLASTICITY INDEX	6 Max.
USUAL TYPES OF SIGNIFICANT CONSTITUENT MATERIALS	Stone Fragments Gravel and Sand

BACKFILL GRADATION

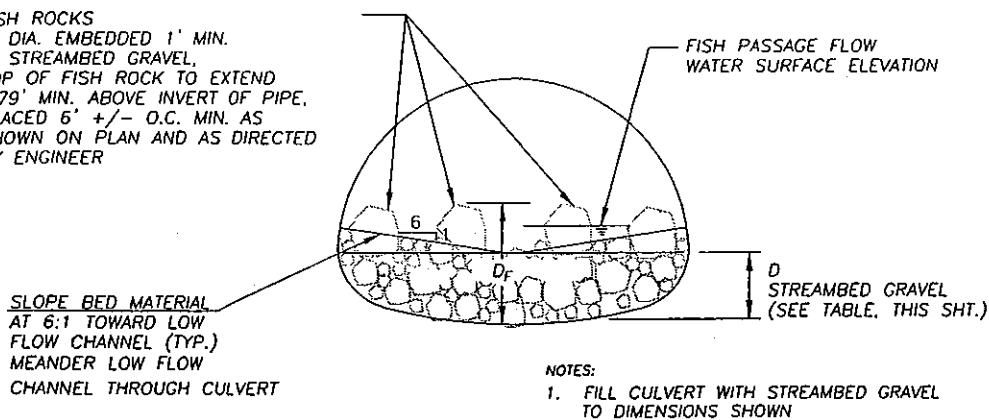
CULVERT #1		CULVERT #2		CULVERT #3		CULVERT #4	
Diameter (in)	Percent Finer						
10	100	14	100	10	100	14	100
5	85-95	5	85-95	5	85-95	5	85-95
2	65-75	2	65-75	2	65-75	2	65-75
1/4	30-40	1/2	30-40	1/4	30-40	1/2	30-40
0.03	10-15	0.04	10-15	0.03	10-15	0.04	10-15

GRADATION FOR STREAMBED GRAVEL

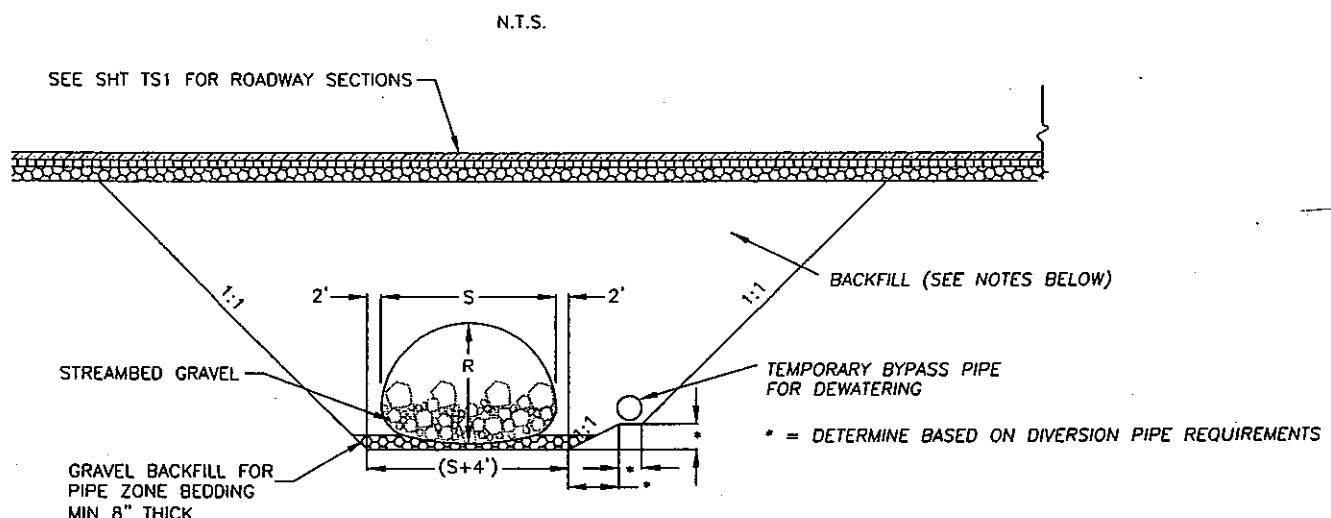
1. STREAMBED GRAVEL TO BE WELL-GRADED GRAVEL PIT MATERIAL, QUARRIED. ANGULAR MATERIAL IS NOT ACCEPTABLE.

2. STREAMBED GRAVEL TO BE TESTED AND GRADATION

FISH ROCKS  
3' DIA. EMBEDDED 1' MIN.  
IN STREAMBED GRAVEL,  
TOP OF FISH ROCK TO EXTEND  
7.79' MIN. ABOVE INVERT OF PIPE,  
PLACED 6' +/- O.C. MIN. AS  
SHOWN ON PLAN AND AS DIRECTED  
BY ENGINEER



### CULVERT CROSS SECTION



### CULVERT TRENCH DETAIL

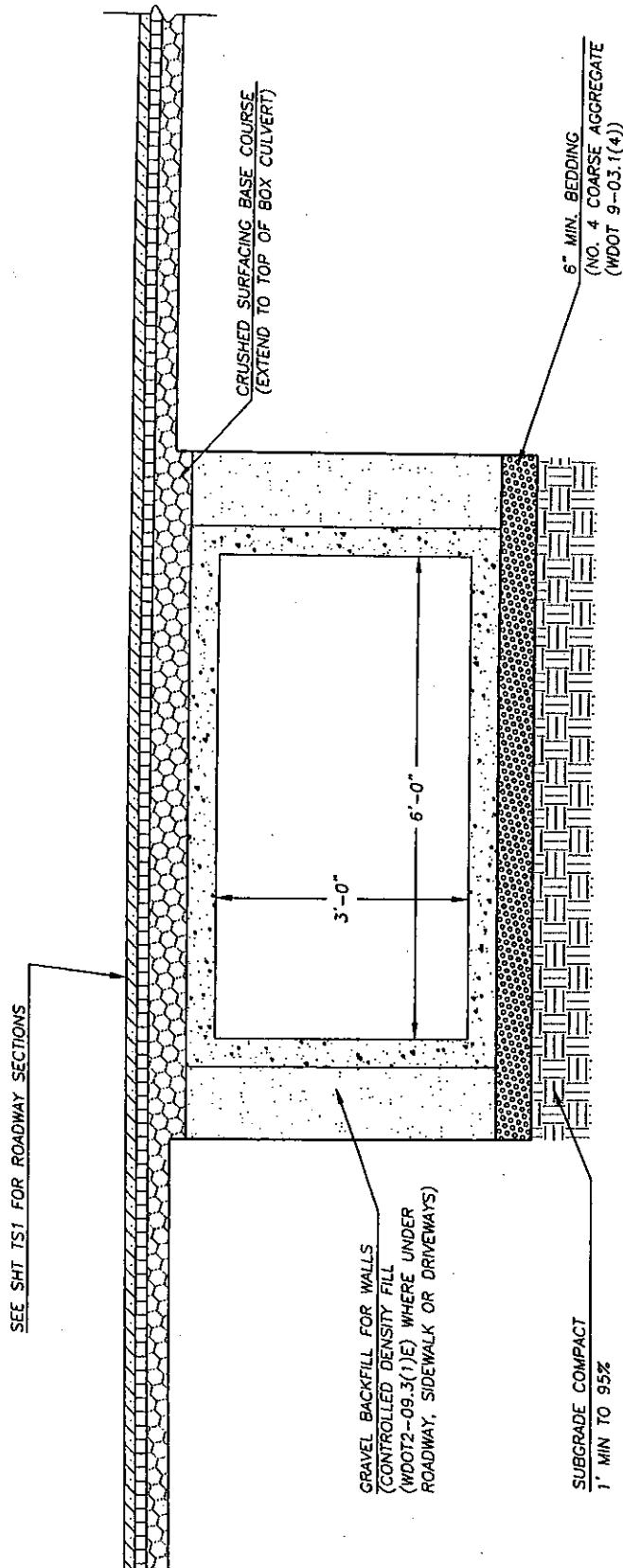
N.T.S.

NOTES:

1. FOR STRUCTURAL PLATE PIPE ARCH BACKFILL TO BE IMPORTED, CLEAN, WELL- GRADED GRANULAR MATERIAL (AASHTO M 145 FOR SOIL CLASSIFICATION A-1, A-2 OR A-3)
2. PIPE INSTALLATION PER MANUFACTURER'S SPECIFICATIONS. CONTACT PIPE MANUFACTURER TO PROVIDE ON-SITE ASSISTANCE PRIOR TO ASSEMBLY.
3. BACKFILL SHALL BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 6" TO 8" LIFTS.
4. PLACEMENT, BACKFILL AND COMPACTION TO BE AS DIRECTED BY ENGINEER.
5. ALL PAVING INCLUDED IN PAVEMENT BID ITEMS
6. ALL BEDDING, BACKFILL AND INSTALLATION INCLUDED IN BID ITEM FOR PIPE. FILL INSIDE PIPE PAID UNDER SEPARATE BID ITEMS.

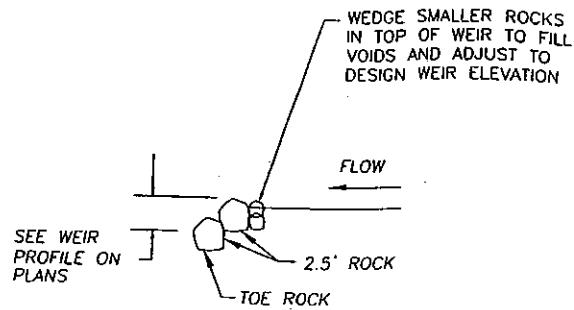
CULVERT LOCATION	STRUCTURE TYPE	S	R	D	D_F
CULVERT #?	STRUCTURAL PLATE PIPE ARCH				
CULVERT #?	STRUCTURAL PLATE PIPE ARCH				

### CULVERT DIMENSIONS

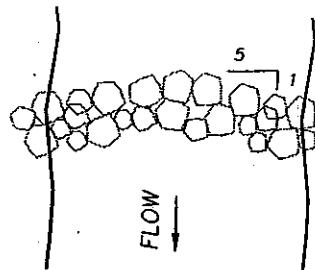


NOTES:

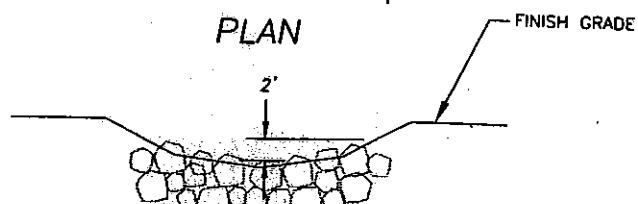
1. CONTRACTOR SHALL FURNISH ALL SOILS INFORMATION NECESSARY, COMPLETE STRUCTURAL DESIGN AND SUBMIT DETAILED SHOP DRAWINGS FOR ENGINEER'S REVIEW AND APPROVAL. BOTH PRE-CAST AND CAST-IN-PLACE DESIGNS ARE ACCEPTABLE, SUBJECT TO REVIEW AND APPROVAL.
2. ALL REINFORCED CONCRETE DESIGN SHALL BE TO WSDOT DESIGN MANUAL M 22-01. DESIGN SHALL BE H20 LOADING TO ASTM 850
3. APPROXIMATE DEPTHS OF COVER OVER THE CENTERLINE OF THE BOX CULVERT ARE SHOWN ON THE PLAN PROFILES. THE CONTRACTOR SHALL COMPUTE MINIMUM DEPTHS OF COVER FOR DESIGN PURPOSES USING THE DETAILED GEOMETRIC INFORMATION PROVIDED ON THE ROADWAY PROFILE SHEETS AND THE TYPICAL SECTIONS.
4. PAYMENT SHALL BE BY LINEAL FOOT OF BOX CULVERT INSTALLED. ALL INVESTIGATION, DESIGN, CONCRETE, REINFORCING, BEDDING, BACKFILL, MANHOLES, BLOCKOUTS, BULKHEADS AND ALL OTHER ITEMS ARE INCIDENTAL TO THIS UNIT PRICE.



**PROFILE**



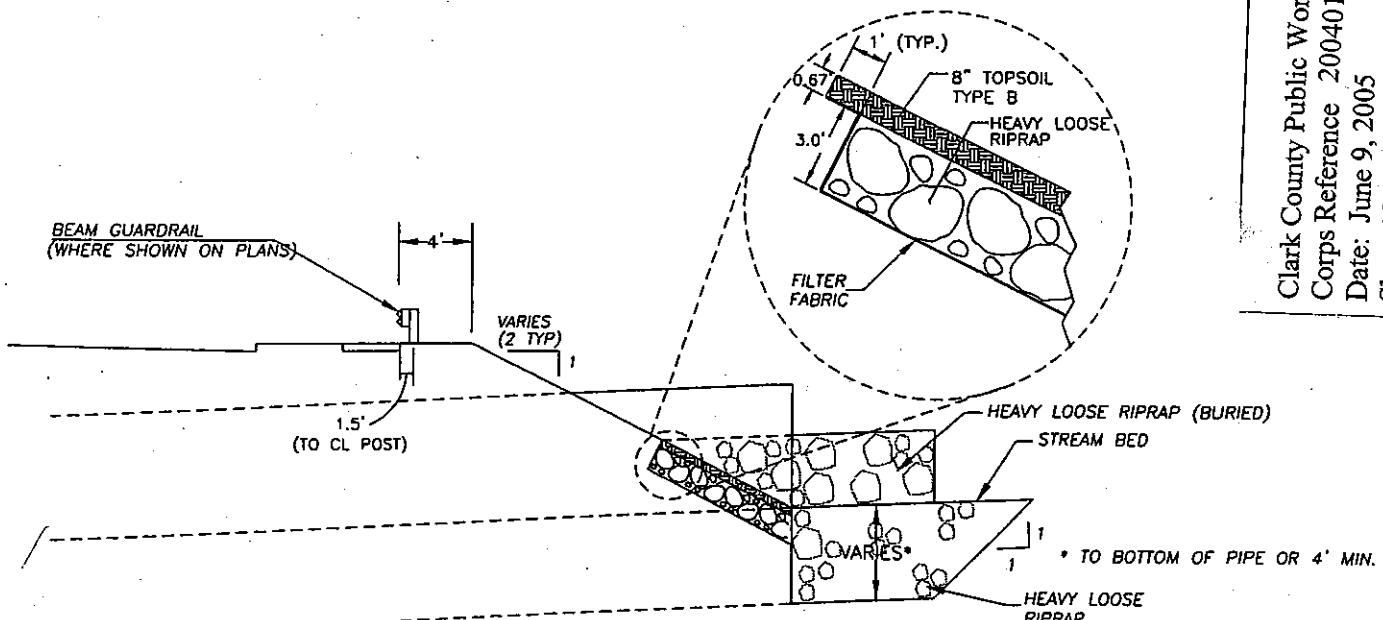
**PLAN**



**SECTION**

**ROCK WEIR DETAIL**

N.T.S.

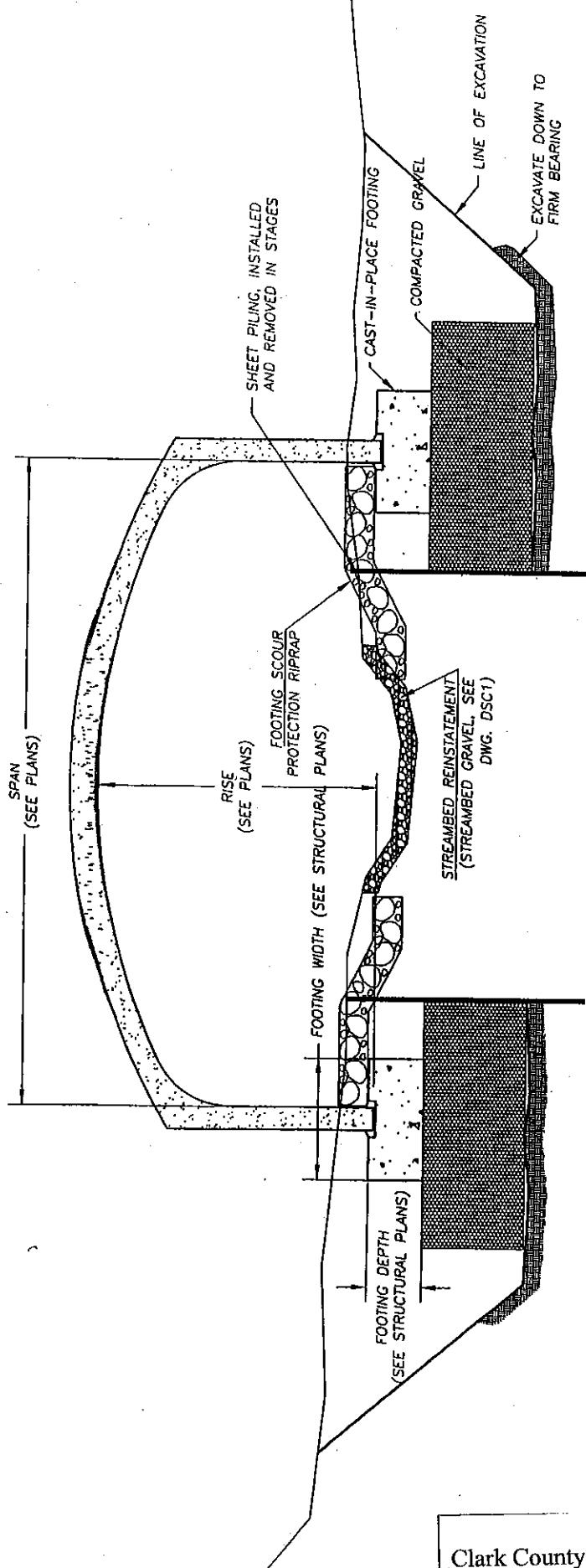


**CULVERT INLET AND OUTLET PROTECTION**

N.T.S.

**NOTES:**

1. SEE PLAN AND PROFILE SHEETS FOR DETAILED LAYOUT AND ELEVATION INFORMATION.
2. FILTER FABRIC SHALL BE CONSTRUCTION GEOTEXTILE FOR SEPARATION OR SOIL STABILIZATION TO WDOT 9-33 (TABLE-3). INSTALL LINER PER MANUFACTURER'S SPECIFICATIONS.
3. ALL COSTS FOR 8" TOPSOIL TYPE B INCLUDED IN UNIT COST FOR HEAVY LOOSE RIPRAP (BURIED).
4. FOR BEAM GUARDRAIL, SEE WSDOT STD. PLAN C-1.
5. WHERE DRIVEN BEAM MAY IMPACT CULVERT, PROVIDE 12'-6" SPAN PLACEMENT PER WDOT STD. PLAN C-2K.

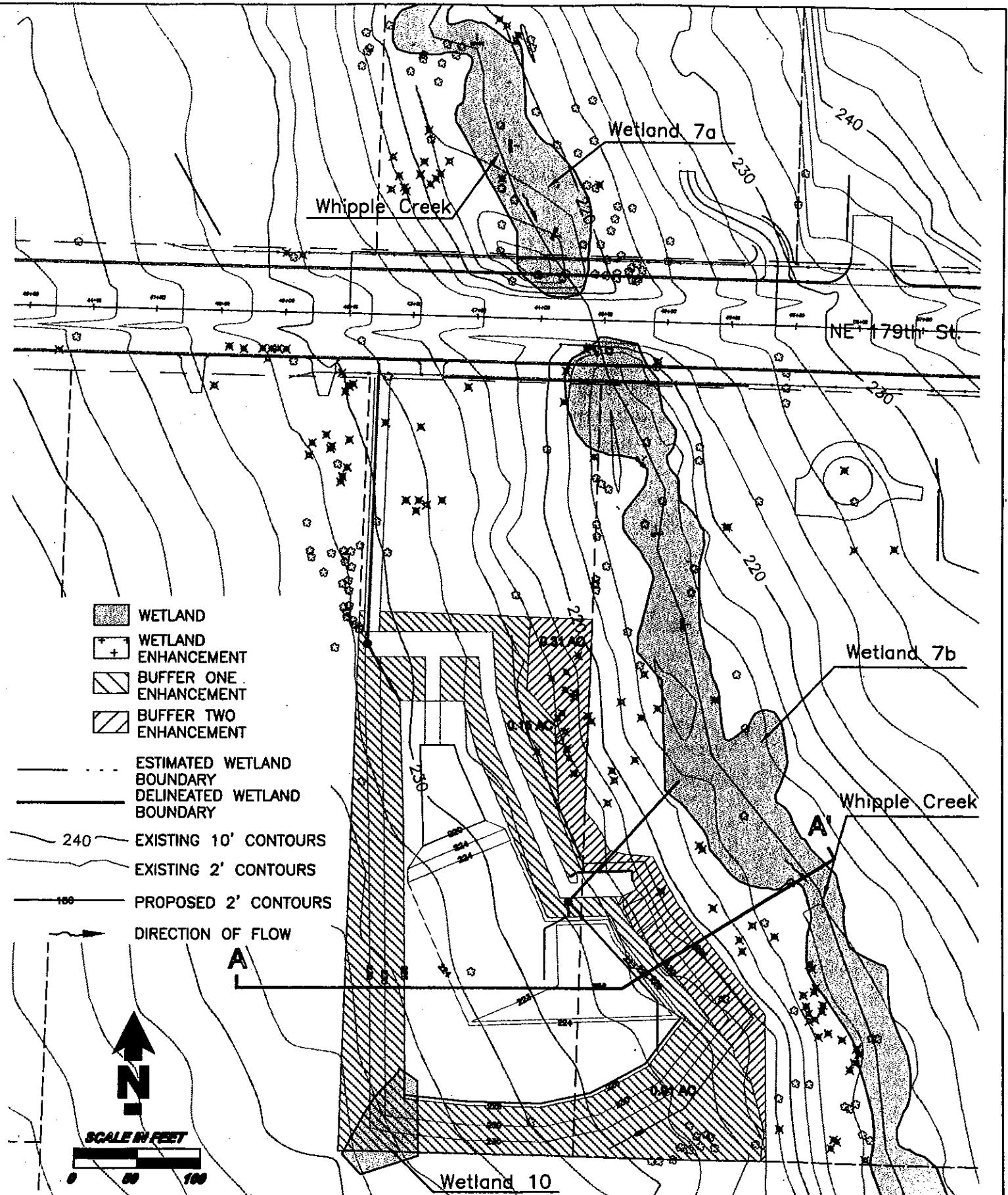


CULVERT CROSS SECTION ("CON-SPAN")

N.T.S.

NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR DETAILED LAYOUT AND ELEVATION INFORMATION.
2. SEE STRUCTURAL DESIGN SHEETS FOR FOUNDATION DESIGN AND RIPRAP SCOUR PROTECTION.
3. DESIGN OF "CON-SPAN" BRIDGE STRUCTURE TO BE PROVIDED BY MANUFACTURER
4. SEE DWG. DSC3 FOR SPECIFICATIONS FOR CON-SPAN BRIDGE SYSTEMS.



**Figure 18 - NE 179th St. Wetlands 7 & 10. Stormwater Facility 1**

Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)

Clark County Public Works, NE 179<sup>th</sup> Street

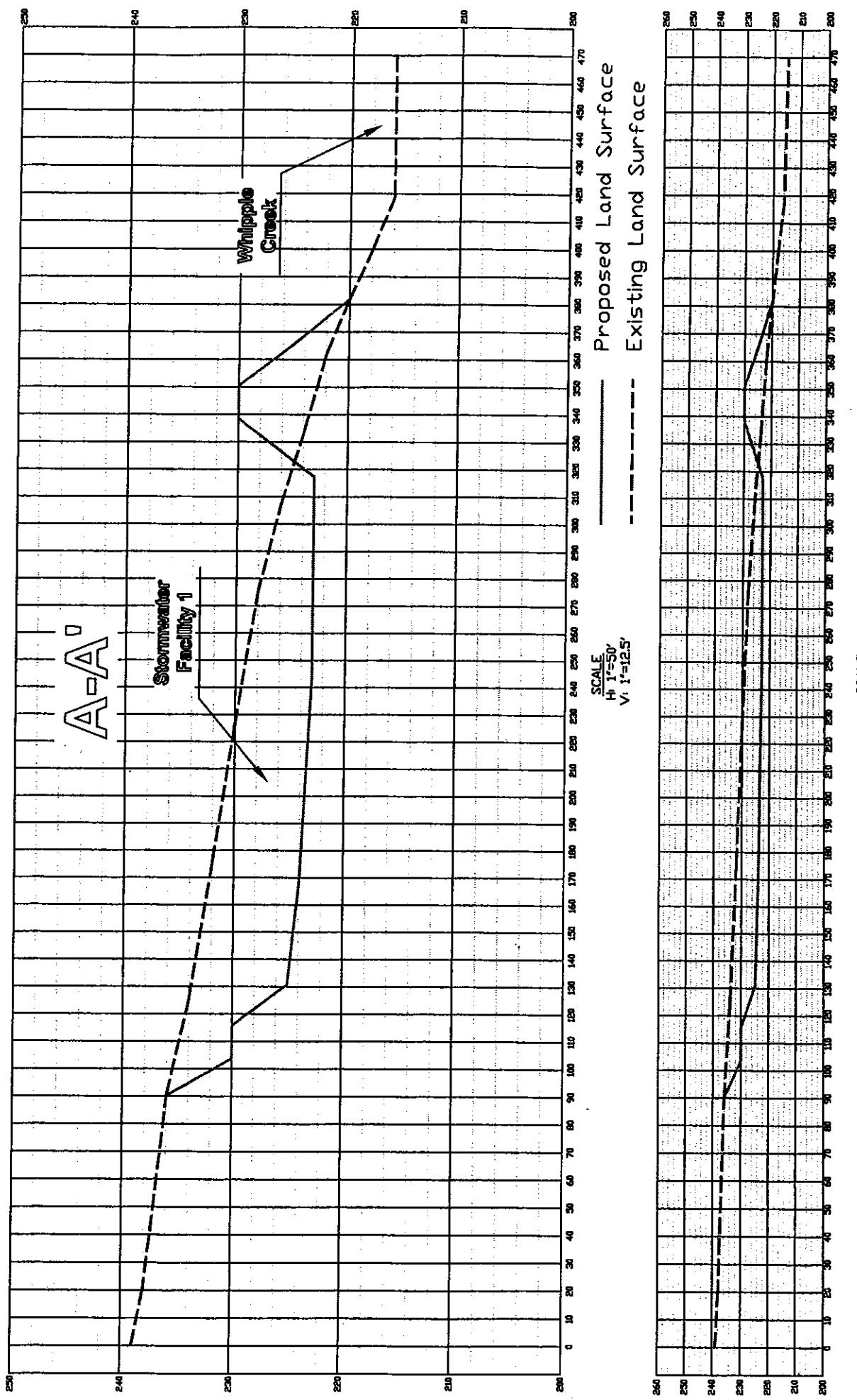
Corps Reference: 200401277

Date: June 9, 2005

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providing past, promising future



**Figure 19 - NE 179th St. Stormwater Facility 1 Section A-A'**

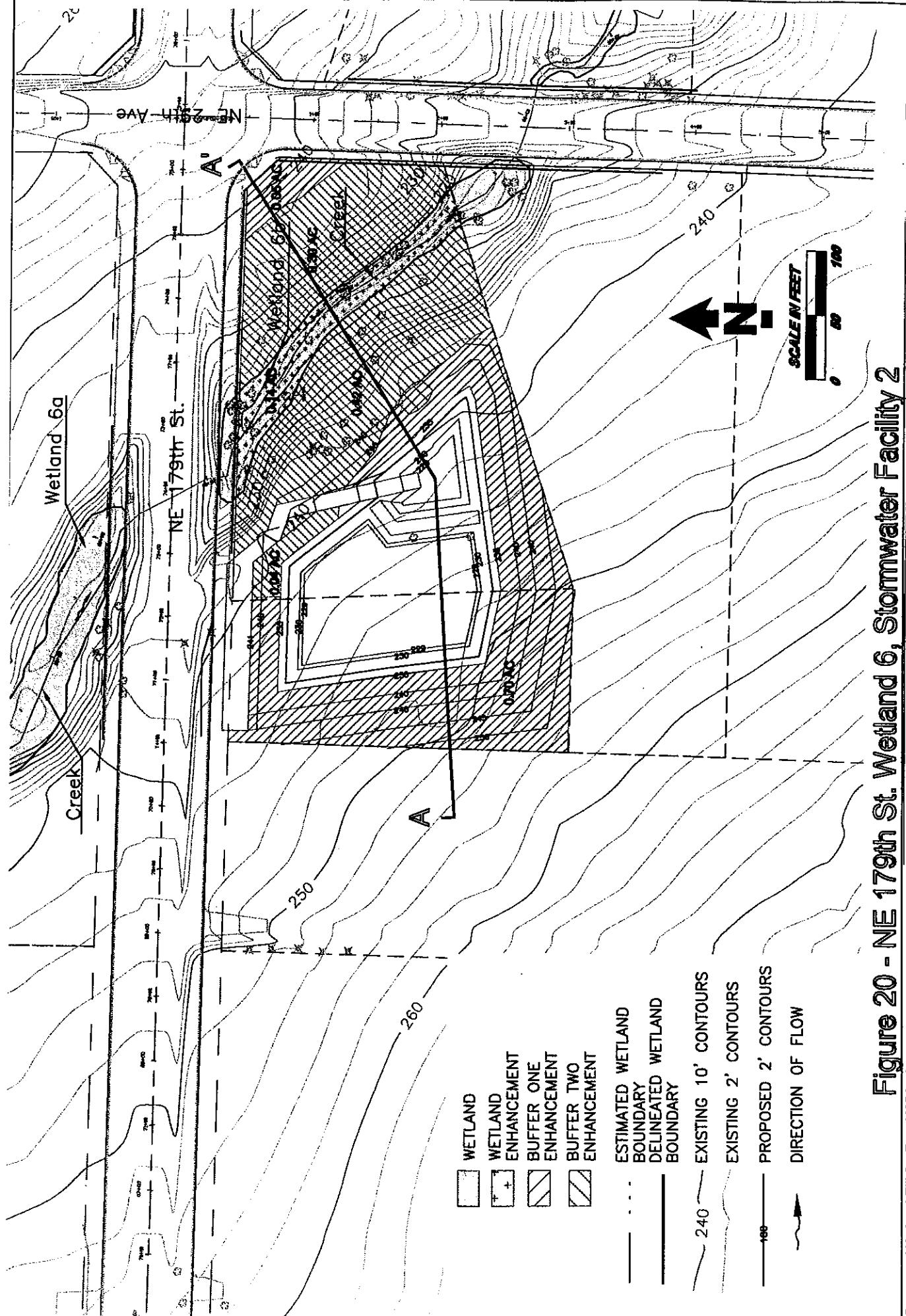
Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 28 (47)

Clark County Public Works, NE 179<sup>th</sup> Street

Clark County Public Works, Inc.  
Corps Reference 200401277

Date: June 9, 2011  
Sheet 21 of 34



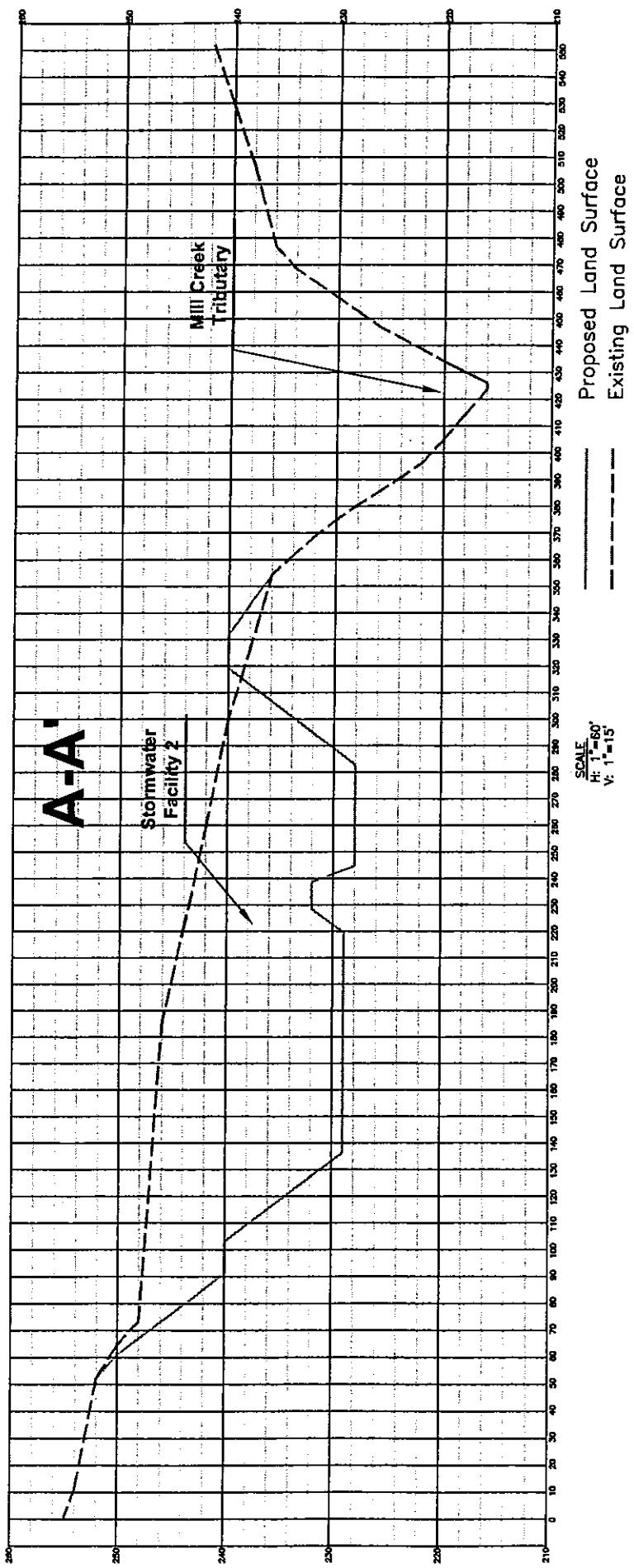


**Figure 20 - NE 179th St. Wetland 6, Stormwater Facility 2**

Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (S1)  
 Vertical = NGVD 28 (47)

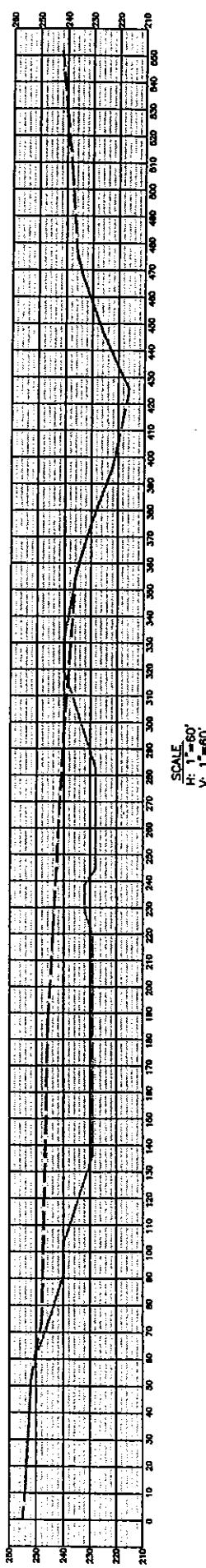


Clark County Public Works, NE 179<sup>th</sup> Street  
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Proposed Land Surface  
Existing Land Surface

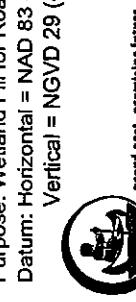
SCALE  
H: 1'-60"  
V: 1'-15'



SCALE  
H: 1'-60"  
V: 1'-15'

Figure 21 - NE 179th St. Stormwater Facility 2 Section A-A'

Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)



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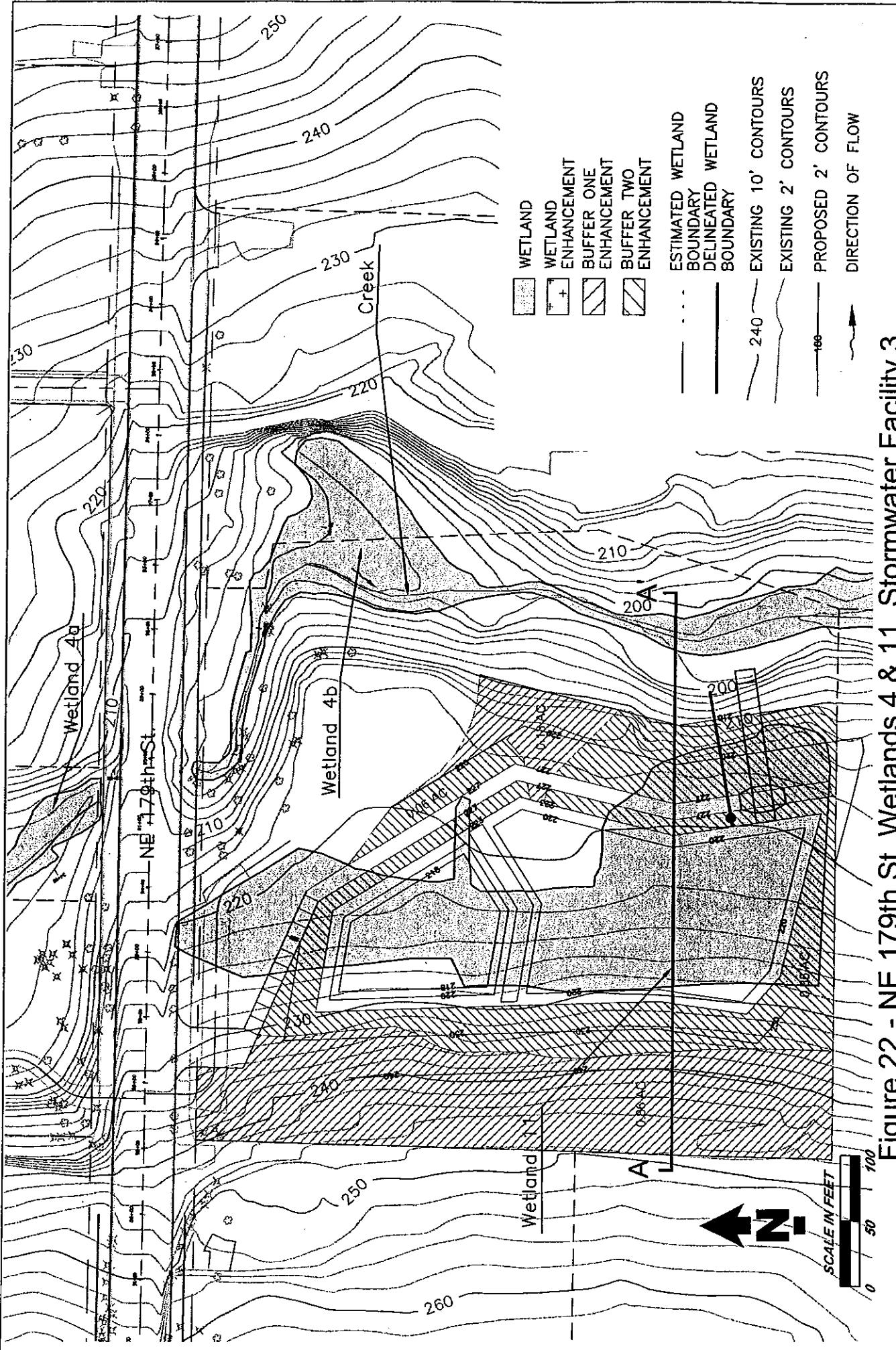
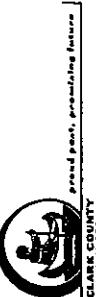


Figure 22 - NE 179th St. Wetlands 4 & 11, Stormwater Facility 3

Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)

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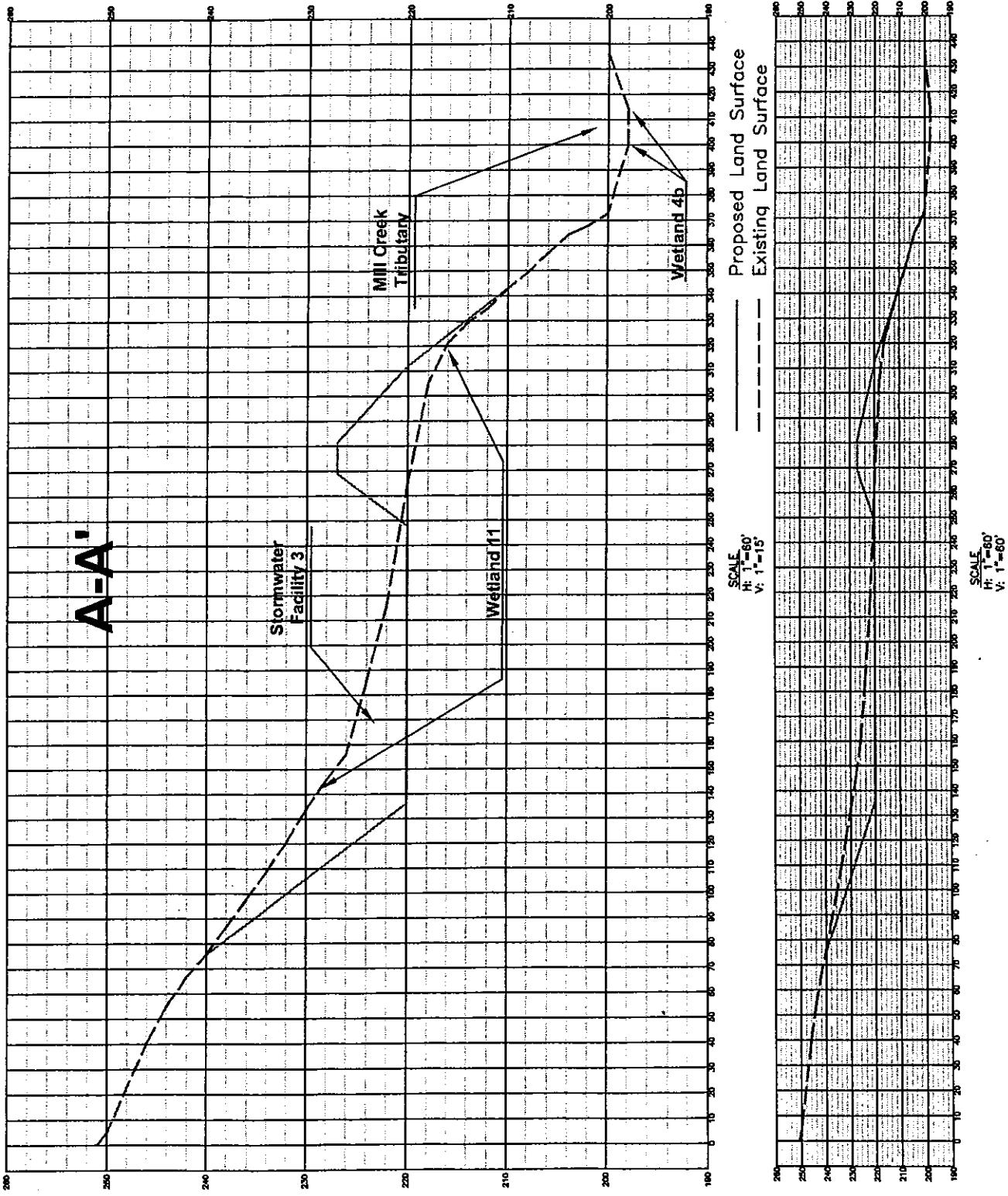


Figure 23 - NE 179th St. Stormwater Facility 3 Section A-A'

Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)

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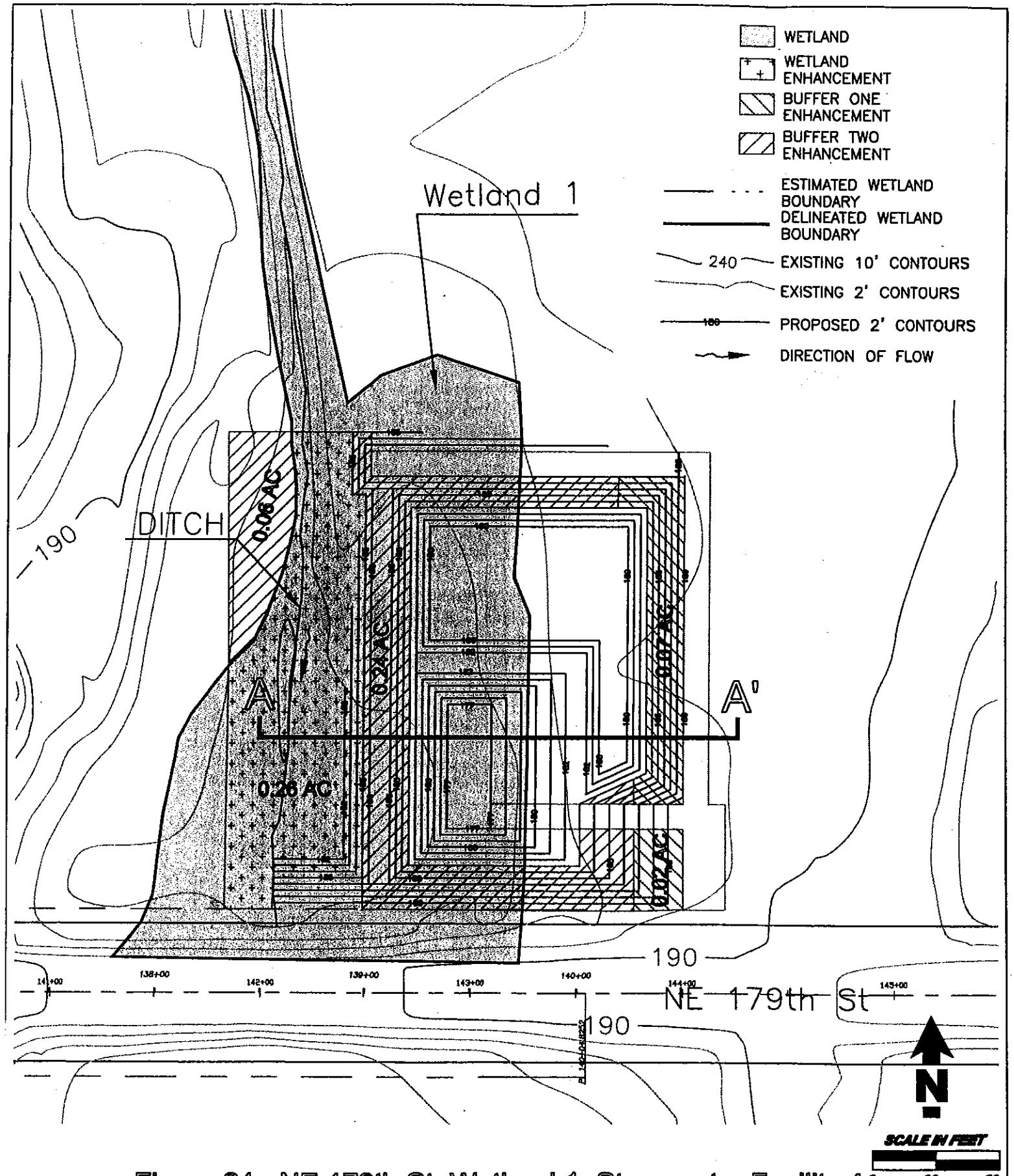


Figure 24 - NE 179th St. Wetland 1, Stormwater Facility 4°

Purpose: Wetland Fill for Road Widening

Datum: Horizontal = NAD 83 (91)

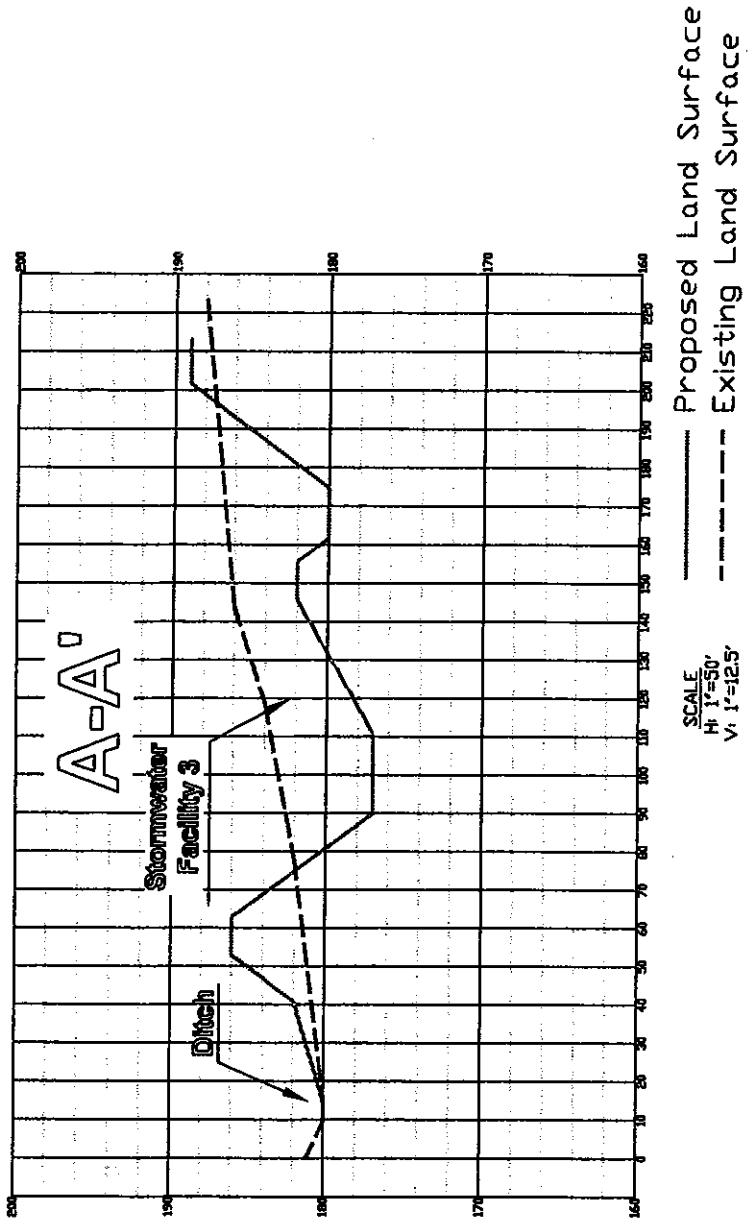
Vertical = NGVD 29 (47)

Clark County Public Works, NE 179<sup>th</sup> Street

Corps Reference 200401277

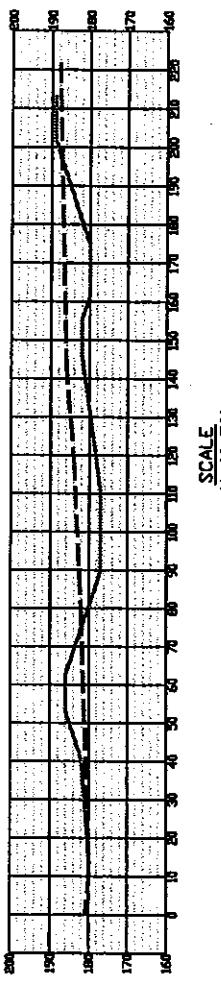
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Proposed Land Surface  
Existing Land Surface

SCALE  
H 1' = 50'  
V 1' = 12.5'

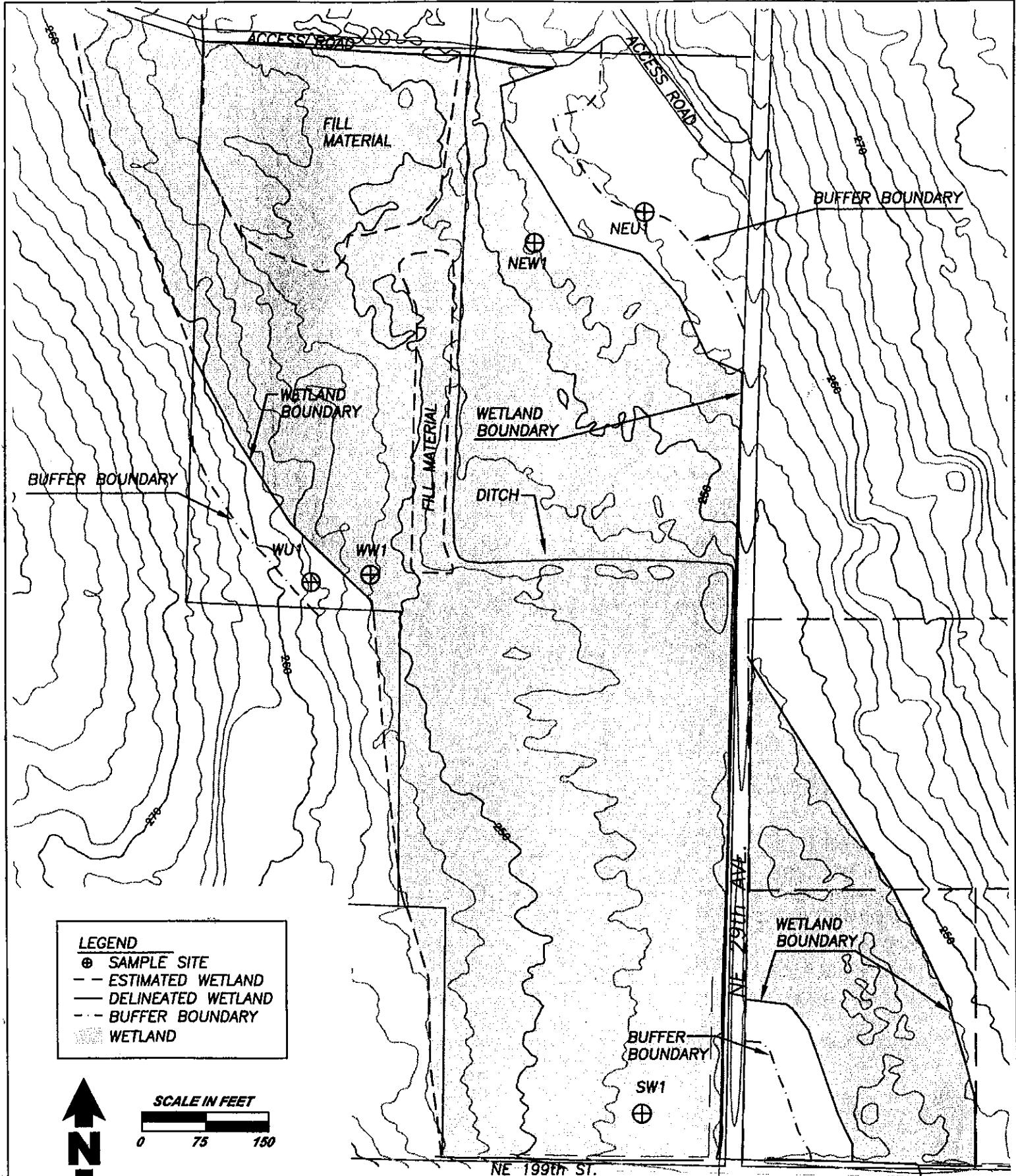


**Figure 25 - NE 179th St. Stormwater Facility 4 Section A-A'**

Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 28 (47)

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**Figure 14 - North Gabbert Mitigation Site, Existing**

### Purpose: Wetland Fill for Road Widening

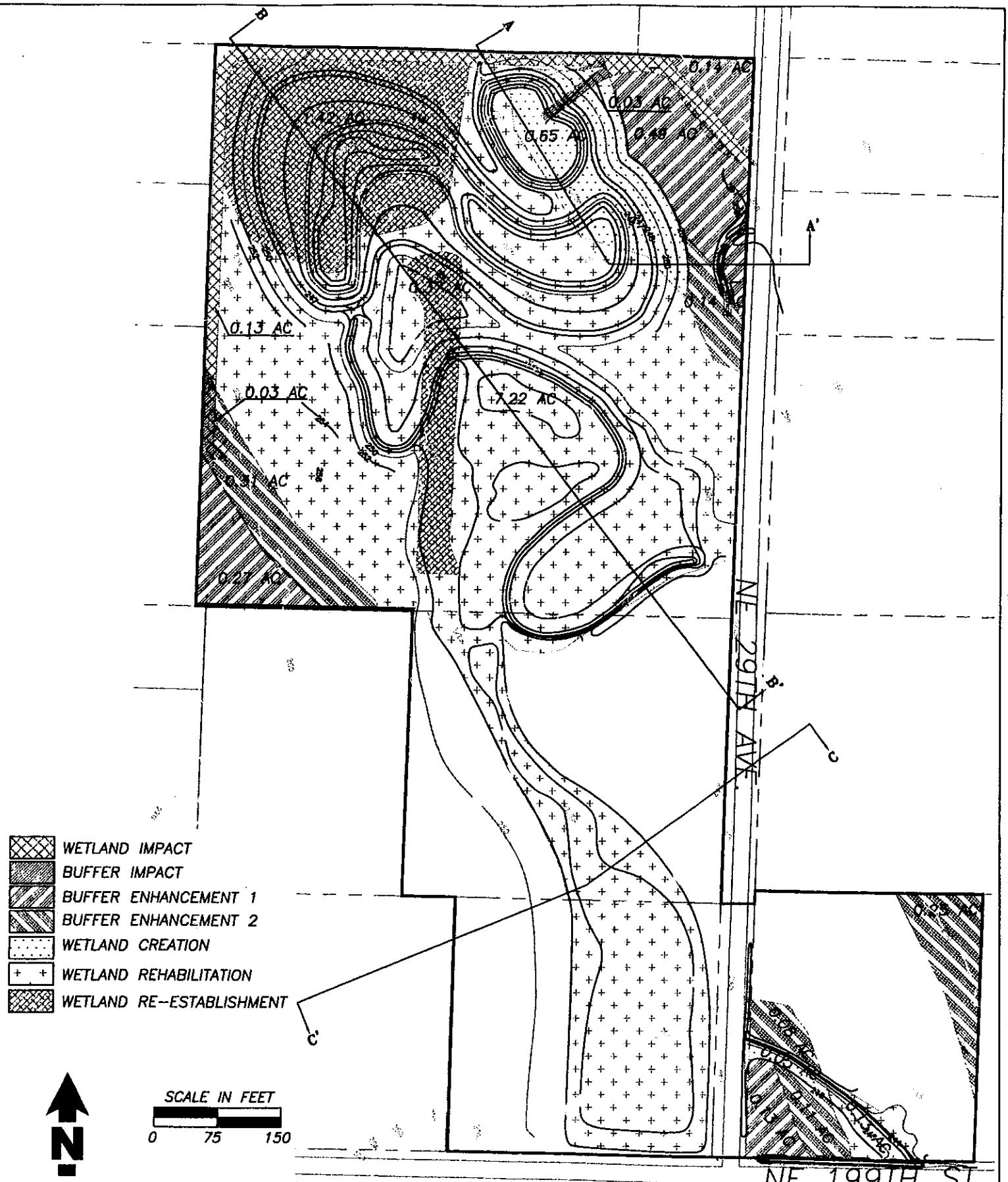
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)

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**Figure 15 - North Gabbert Proposed Mitigation Measures**

Purpose: Wetland Fill for Road Widening

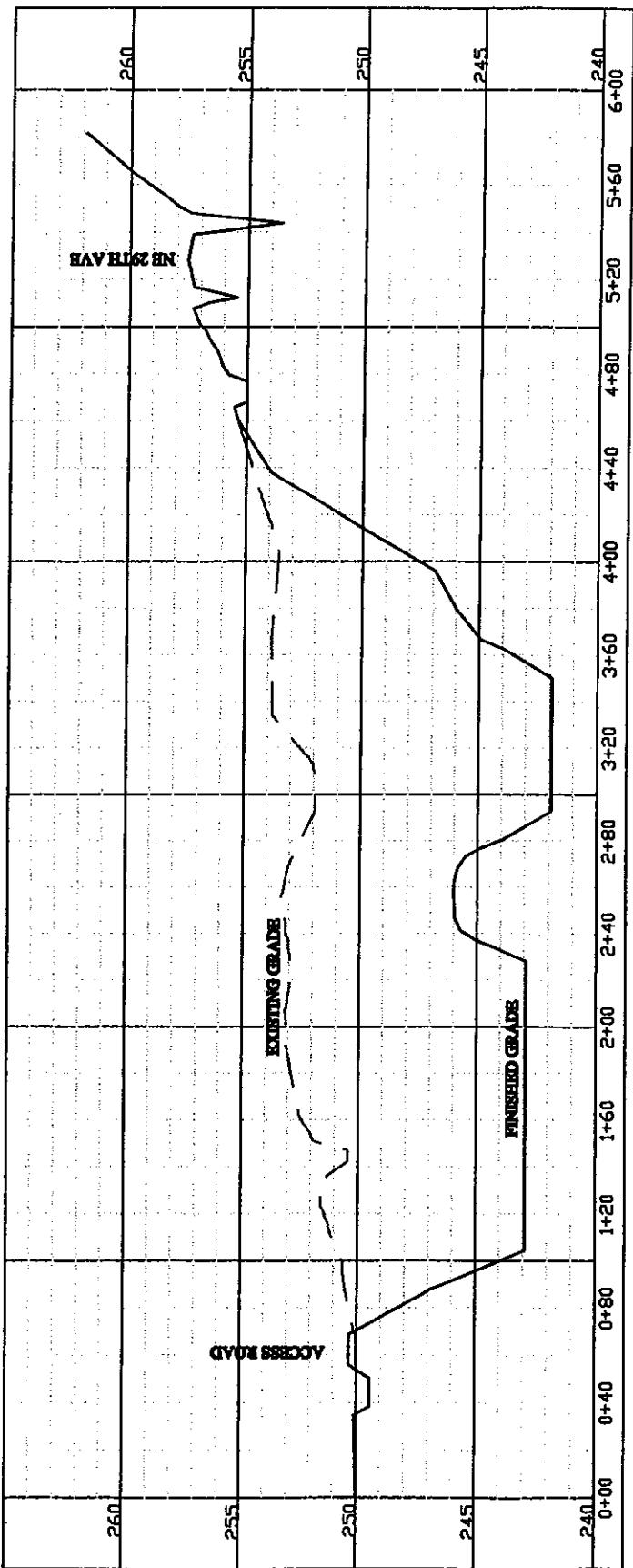
Datum: Horizontal = NAD 83 (91)  
Vertical = NGVD 29 (47)



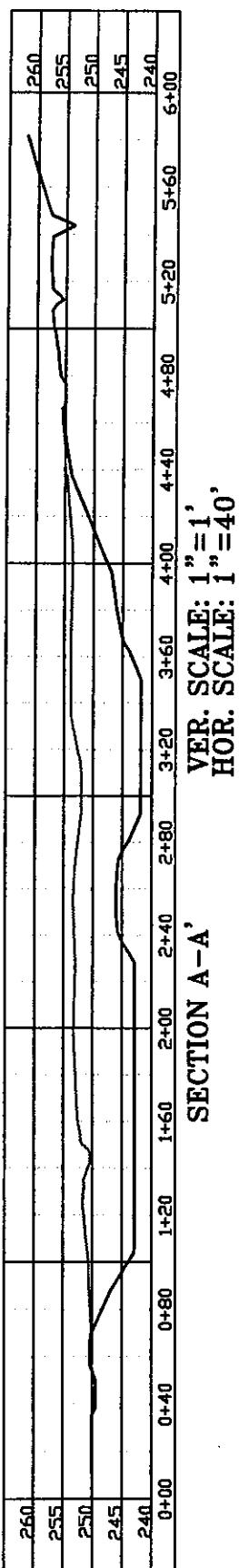
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**SECTION A-A'**  
VER. SCALE: 1" = 4'  
HOR. SCALE: 1" = 40'

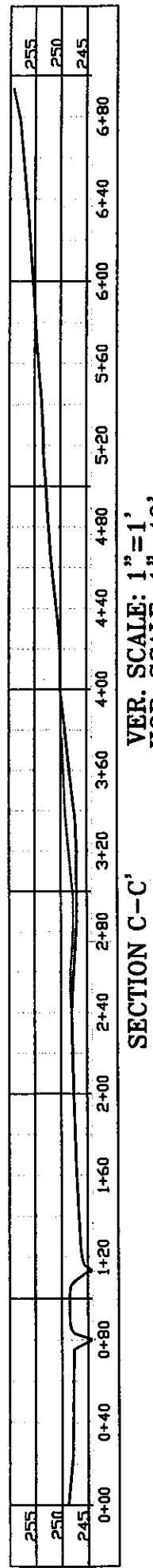
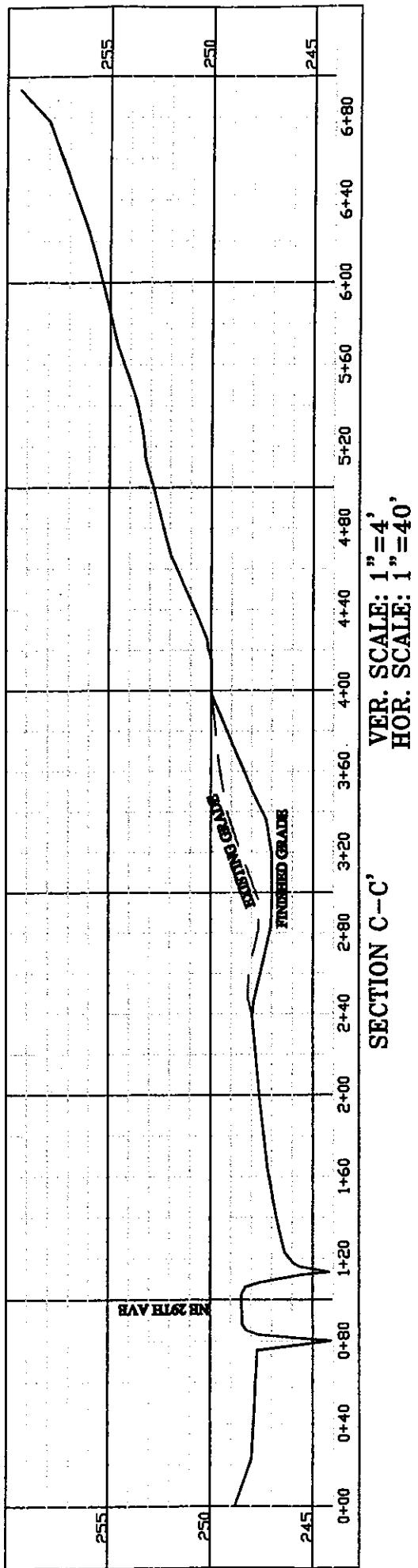


**Figure 16a - North Gabbert mitigation site, proposed, cross sections**

Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (81)  
Vertical = NGVD 28 (47)

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**Figure 16c - North Gabbert mitigation site, proposed, cross sections**

Purpose: Wetland Fill for Road Widening  
Datum: Horizontal = NAD 83 (81)  
Vertical = NGVD 29 (47)

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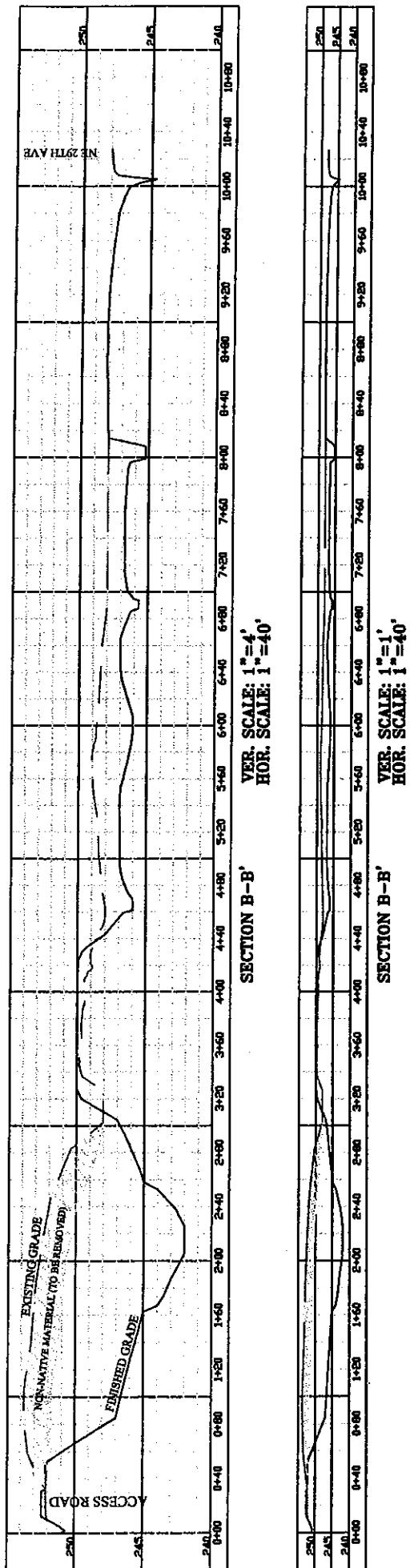
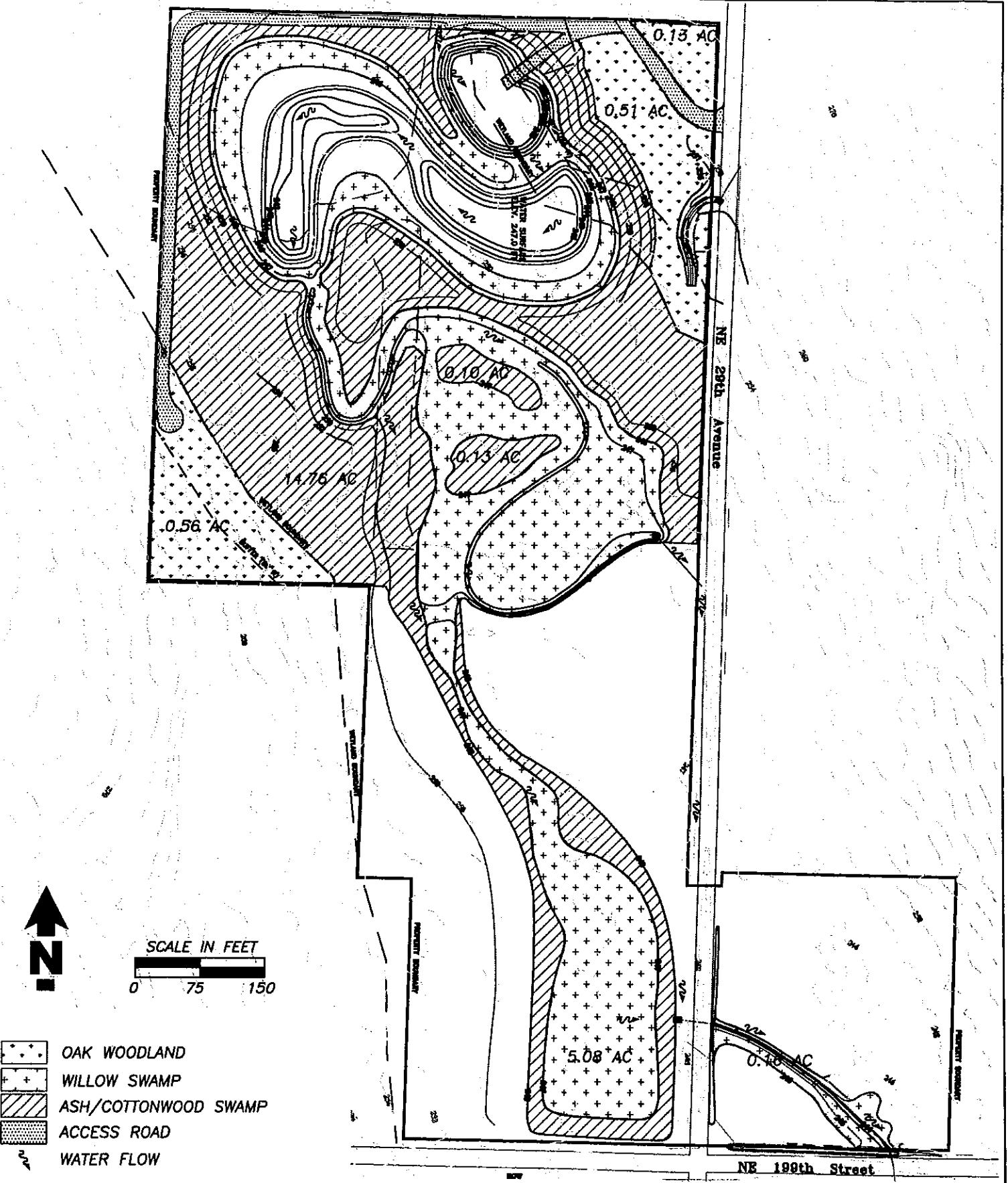


Figure 16b - North Gabbert mitigation site, proposed, cross sections

Purpose: Wetland Fill for Road Widening  
 Datum: Horizontal = NAD 83 (91)  
 Vertical = NGVD 29 (47)



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## **Figure 17A - North Gabbert Landscape Plan**

**Purpose: Wetland Fill for Road Widening**  
**Datum: Horizontal = NAD 83 (91)**  
**Vertical = NGVD 29 (47)**



#### second post-assembly factors

## Clark County Public Works, NE 179<sup>th</sup> Street

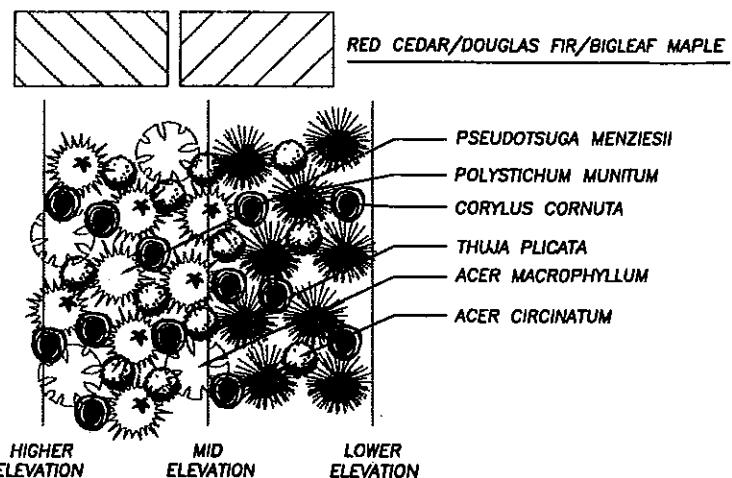
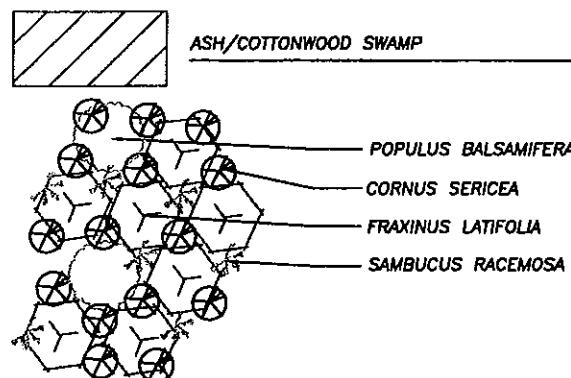
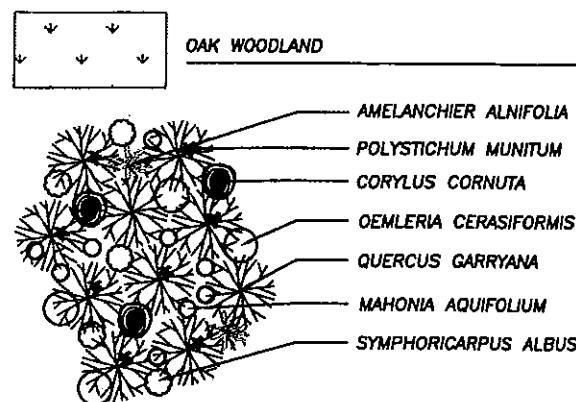
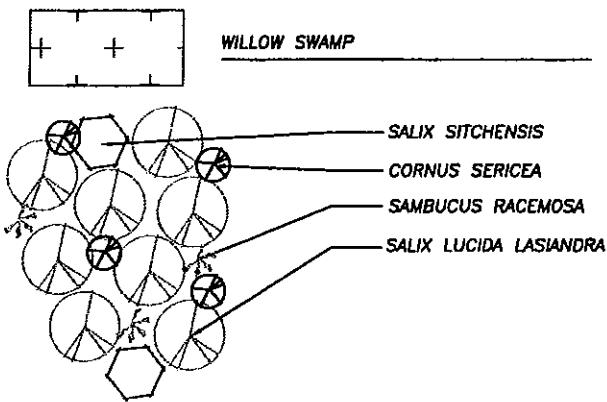
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## PLANT GROUPINGS – NOT DRAWN TO SCALE

\*REPEAT EACH PLANTING PATTERN THROUGHTOUT ITS SPECIFIED AREA



**Figure 17B - North Gabbert Landscape Plan**

Purpose: Wetland Fill for Road Widening

Datum: Horizontal = NAD 83 (91)

Vertical = NGVD 29 (47)



ground great, promising future

Clark County Public Works, NE 179<sup>th</sup> Street  
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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600  
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Notice of Application for  
Water Quality Certification

Date: July 18, 2005

Notice is hereby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200401277 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Any person desiring to present views on the project pertaining to compliance with water pollution control laws may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator  
Department of Ecology  
SEA Program  
Post Office Box 47600  
Olympia, Washington 98504-7600